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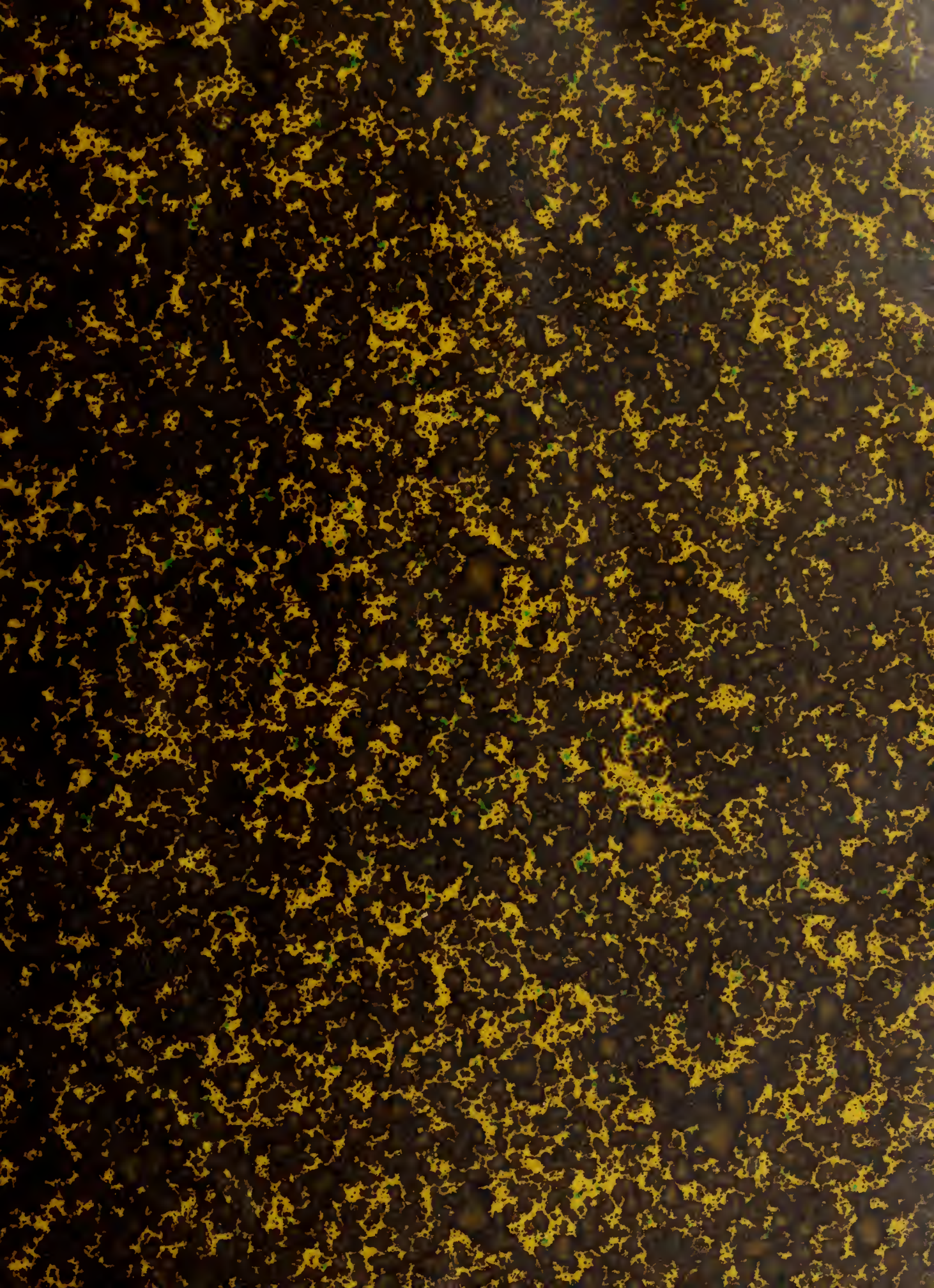

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The Mount Pleasant Press

Wishes to all the Nurserymen of the United States

A Prosperous New Year!

THE signs of the times point to Prosperity for nurserymen —that is, to those nurserymen who have placed themselves in a position to *deserve* Prosperity. There is a class of men, of whom a few have crept in among the growers of plants, trees and shrubs, who expect to have Prosperity forced upon them with a club! Let them not be deceived; His Royal Nibs, the Prince of Prosperity, no longer travels with a brass band, nor does he break down the nurseryman's office-door to sit with him, and fatten up his bank account! Not much! Prince Prosperity awaits invitation as well as deserving, nowadays, and, if he is wanted, he must be prepared for, urged to come, and heartily welcomed by performance rather than by promise. He can't be gold-bricked; he has one eye out for the cheap man, for the "just as good" imitator, the poor packer, the short-counter, the skin-game fellow. He passes silently by such business men.

But he also misses many honest nurserymen who are hollow-chested, and who don't put on the front that invites Prosperity by seeming prosperous, backing it up by the true air of Prosperity that comes from doing things just a little better than the other fellow. These are the Prosperity-missers who are to be pitied and helped; the other fellows are not worth helping.

Now we are first assistants, almost prime ministers, to the Prince of Prosperity who comes to nurserymen, for we give public evidence that he has arrived! We are prosperous ourselves (being not ashamed of it,

either), and we love to aid Prosperity in "meeting up" with nurserymen. Among our list of valued and long-standing customers are most of the prosperous nurserymen of eastern America, and we serve them for Prosperity and with Prosperity and in Prosperity!

There is one kind of nurserymen we don't want to help: the man who expects to have a fine catalogue "when he can afford it," *as a luxury*. We do not want to print for any one who does not plan to have his catalogue pay him; we do not make "luxury" catalogues, or put on fool frills, or willingly permit a dollar's waste on work we do. We prefer to work, and *do* work, for those who cannot afford *not* to have a good catalogue, with which to invite the good trade of the good people who are ready to help in making the self-respecting nurseryman prosperous.

In 1906 we can care for some more of the Prosperity family. We are glad to write honest letters about catalogues to those who make honest inquiries and want our honest and best work. Try us.

J. Horace McFarland Company
Mount Pleasant Press
Harrisburg, Penna.

P. S.—It is sometimes worth while to keep in good company. The standard of printing at the Mount Pleasant Press has been greatly advanced in the past four years by our work with magazines admitted to be the most beautiful in the world. We printed "Country Life in America" for the first three years of its life, which made its reputation. We designed and made "The Country Calendar" until it was merged with "Country Life," just this month. Now we have undertaken to make "Suburban Life," of Boston, (which comes to us unsolicited), just as beautiful as a magazine can be. All these magazines have helped the nurserymen, for they have made a market for fine plants, trees, vines and shrubs. But this good work for the out-door magazines is reflected fully on the catalogues we make, and they are admitted to be the best in America. We ought to know how to make them, for we have been endeavoring to excel for twenty-seven years!

ESTABLISHED 1875

Mount Arbor Nurseries

E. S. WELCH, Proprietor

130 Center St., Shenandoah, Iowa.

One of the Largest, Best Equipped and most up-to-date Nursery Plants in the United States.

LARGE SUPPLY FOR SPRING 1906

APPLE and CRAB
Over 100 varieties, all grades.

PLUM AMERICANA on NATIVE ROOTS
Largest stock in United States.

PLUM EUROPEAN and JAPANESE
Smooth well grown trees.

CHERRY TWO YEAR
All of the leading sour and sweet varieties in prime condition.

ROSES and ORNAMENTALS
The leading popular kinds.

FOREST TREE SEEDLINGS
Catalpa, Locust, Maple, Elm, Ash, etc.

APPLE SEEDLINGS, LARGE SURPLUS
Grown on new land, free from disease.

APPLE GRAFTS
Any style made to order. Put up from best material and by competent workmen.

Shipments made from storage at any time.

Pleased to price your wants.

Special inducements on car lots

Ask for **Winter Wholesale List,** now ready.

Bridgeport Nurseries

ALBERTSON & HOBBS

BRIDGEPORT, INDIANA

The largest and most complete in the state and one of the largest and best equipped in the country.

FOR SPRING OF 1906

PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY FEB. 1st.

Our cellars are WELL FILLED and SHIPMENTS can be made ANY DAY. Order early and have goods set aside for you.

WANT LISTS PRICED PROMPTLY

P. OUWERKERK

1123 SUMMIT AVENUE, JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Paeoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas and Shrubs, our specialties at our HOLLAND NURSERIES. Some of the goods on hand here during the packing season.

TWO HUNDRED ACRES FIELD GROWN ROSES

Own Root—Leading Varieties

SHRUBS, JAPANESE IRIS, PAEONIES

In Thousands or Car Lots

The United States Nursery Co.

RICH, MISS.

Forest Tree Seedlings

We offer for Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
HONEY LOCUST 8-10 inch grades.
HARDY CATALPA 8-12, 12-18, 18-24 and 24-36 inch grades.
RUSS MULBERRY 8-12, 12-18, 18-24 inch, 2-3 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
WHITE ELM 8-12, 12-18 and 18-24 inch grades.

Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right; we make them ourselves.

GERMAN NURSERIES,

CARL SONDEREGGER, Prop., Beatrice, Nebr.

Lenault, Huet & Colombe

. . NURSERYMEN . .

USSY, CALVADOS, FRANCE.

GROWERS AND EXPORTERS OF FRENCH NURSERY STOCK

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

CATALOGUE FREE.

When writing to Advertisers mention The National Nurseryman.

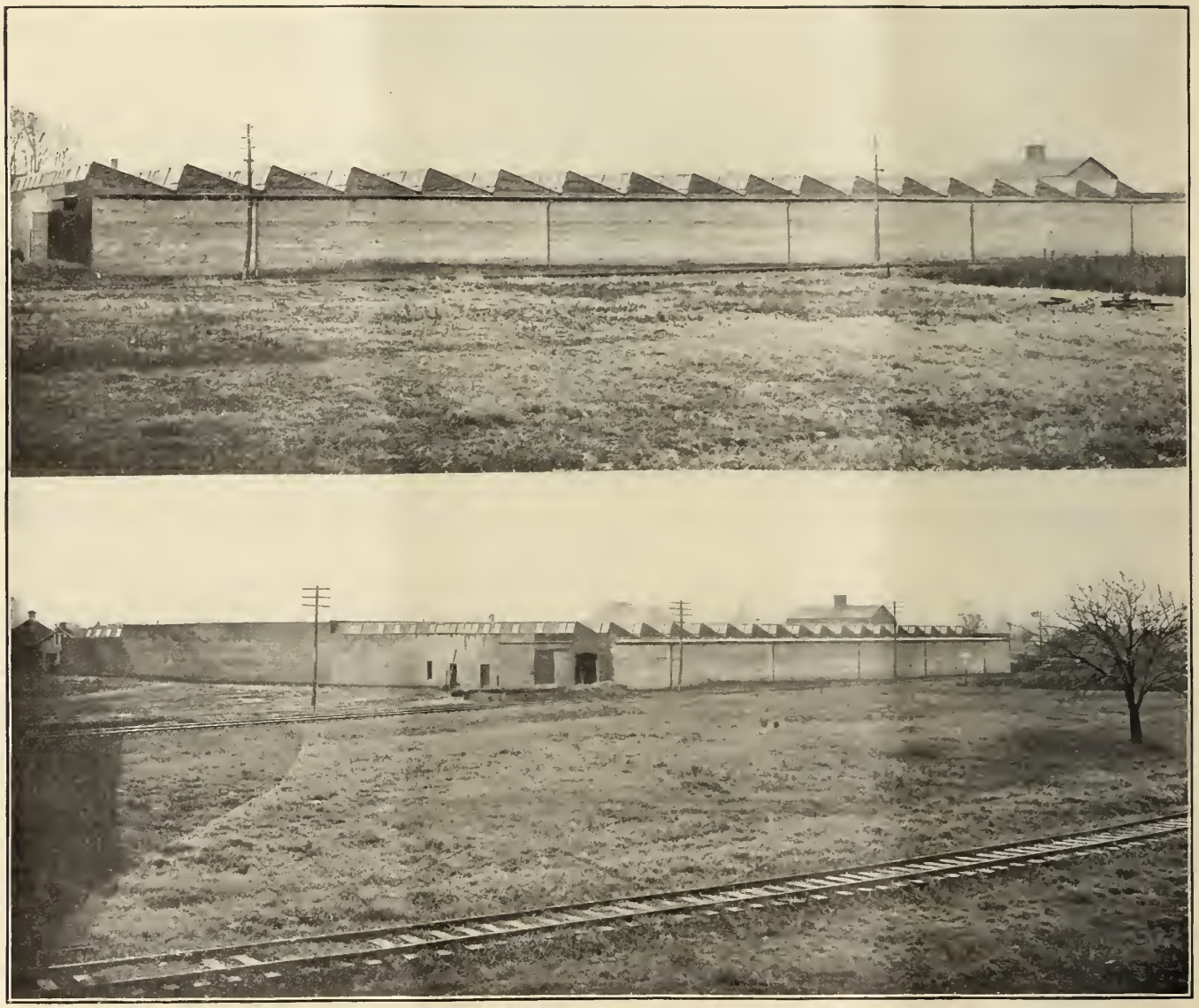
If You Want the Finest

European and Japan Plums

in Dansville, both 1 and 2 yrs., also
1 yr. Cherry and Keiffer Pear, write

JAMES M. KENNEDY, Dansville, N. Y.

When writing to Advertisers mention The National Nurseryman.



Exterior views of the mammoth concrete packing house of Chase Brothers Company, Rochester, N. Y.
The open door near corner shows the private enclosed siding of the New York Central Railway.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., JANUARY, 1906. No 1.

THE HANDLING OF STOCK AS A FACTOR IN THE NURSERY BUSINESS.

MAMMOTH UP-TO-DATE PACKING HOUSE OF CHASE BROTHERS COMPANY, ROCHESTER, N. Y.

THE PERSONNEL OF THE FIRM.

[Written and Illustrated by the Special Correspondent of the National Nurseryman.]

The extent of tree devitalization chargeable to inadequate packing and storage facilities was clearly brought out in our discussion of this subject in recent issues of the National Nurseryman. That a large measure of the loss is sustained through exposure and carelessness in handling is generally admitted. That the percentage of losses is decreasing annually, due to improved storage and shipping facilities, is also a cheerful fact. Nevertheless, there is in many establishments vast room for improvement, and much greater depreciation in the value of the stock takes place by faulty methods of handling than is realized by the average tree grower. Too many growers accept the statement that the tree is dormant during the winter season in its literal sense. It is relatively dormant, true enough, but still susceptible to the influence of immediate environment. A tree is not dormant in the way that a bulb is dormant, and therefore cannot be treated like a bulb. The latter is practically independent of its surroundings during the resting period. On the other hand, trees and herbaceous stock are always more or less closely connected and therefore dependent upon their environment.

Where the trees are pruned, graded and bundled preparatory to storing or shipping. Chase Brothers Company, Rochester, N. Y.

In earlier years in the nursery business a large share of the stock handling took place in the field, and an unpretentious shed or a board fence afforded as much shelter as was thought necessary for the tree and the packer. Then shipping was confined to the "open weeks" of spring and fall, and when winter came the season closed. Now, the work of the present day nurseryman does not terminate with the arrival of cold weather, but continues in greater or less degree throughout the winter. The maximum amount of winter work, and the maximum care due plants and trees when they are out of the ground is only possible when the fullest facilities for winter handling and storage of stock is provided.

A MODERN EXAMPLE.

Probably no better example of a modern storage and packing warehouse can be found anywhere in the country than that recently constructed and equipped by the Chase Brothers Company of Rochester. This new structure is situated on their lately acquired grounds on the line of the New York Central, where the city limits join the suburb of Brighton. Among other advantages they enjoy here a private siding nearly eight hundred feet in extent.

A visit to this packing and storage house during the busy season, or even during the mid-winter months, is attended with much instruction and offers many points of interest to the visitor. Its capaciousness is what strikes one most forcibly at first sight, and there is good reason for this: for it covers a surface area of practically two

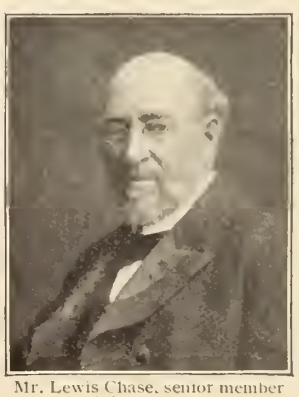
Stock is received in truck loads direct from the field.

acres. In form, it is almost square, being 293 by 288 feet. Just think of a storage and packing house covering enough ground to grow sixty bushels of wheat, or six hundred bushels of potatoes, of thirty thousand nursery trees! Within this immense structure stock is received in truck loads direct from the field. It is sorted, graded, stored, or billed, awaiting shipment; or immediately packed in freight cars standing on the siding under the same roof. A veritable hive of industry is exhibited in this building during the shipping season, and at the same time it is a work-field where stock receives no deterioration by injurious action of sun and wind—and this is important.

Herbaceous stock planted in solid beds on the floor in a cool compartment.

CONSTRUCTION.

This is simple, but of a very substantial character. The walls of concrete are double and enclose a 4-inch air space. They are 16 feet high, and unbroken by windows. The light is provided by a dormer window system, drawing light mainly from the north, well illustrated in the accompanying photograph. (See frontispiece.) The floor is of sand or loam, affording admirable opportunity to "heel in" nursery stock when necessary. The making of a concrete structure of this kind is an undertaking of some magnitude, for these walls contain 40,000 cubic feet of concrete, and into them was built 1,500 barrels of cement or 10 carloads, and six times that quantity of sand, or a total amount equal to seventy carloads of material. The building is divided into five compartments. These are separated by fire-proof concrete walls, and connected with each other by fire-proof iron sliding doors. While six hundred sash in the sloping roof windows provide light; this provision is supplemented by the addition of 158 gas lights which illuminate in the most perfect manner all parts of the building when desired.



Mr. Lewis Chase, senior member of the company.

HANDLING THE STOCK.

The general plan of handling stock in this packing house is to receive it at one end from the trucks as they arrive from the field. Here it is distributed as to class and sorted as to grade. It then moves inward to the three central storing compartments where it is properly stored in stalls, bins or boxes. From this storing department it is taken to the billing department on the opposite side, from whence it goes when packed directly to the waiting car under cover on the track alongside. The moving of heavy box or bale orders is much facilitated by the employment of trucks running on tracks set in concrete, placed parallel with the siding on which the freight cars stand.

PACKING AND STORING.

In a building of this kind where each class of stock has a place by itself, one is greatly impressed by the vast range of material which the nurseryman is expected to handle. Everything from bulbs and herbaceous plants to fruits and ornamentals is represented. The Chase Brothers Company usually employ the cording method of storing stock with some moss packing; but the trees are carefully watched, the temperature and humidity of the building are taken daily, and this important work is supervised by the business manager, Mr. Pitkin, himself. Fruit trees in great quantity and variety, small fruits, including large masses of currants, grapes, raspberries, etc., are found in healthy condition and in well disposed positions.

Among the special features which attracted our notice was the method of storing herbaceous plants. Some of these are planted in solid beds of sand on the floor. Others are packed in layers in boxes of sand, lining the walls of a cold compartment. In this library, or pigeon-hole position the plants may be readily abstracted to fill an

Distributing stock as to class.

order without disturbing those which remain. In this institution, system prevails throughout, and it is this reduction of a complex business to a thoroughly orderly scheme that has materially aided the growth of the enterprise, and vastly contributed to the satisfaction of the customer.

PERSONNEL OF THE COMPANY.

Chase Brothers Company has had an exceedingly interesting history, not only in relation to the development of its own business but in its influence on the growth of the nursery industry in Western New York in general. The business from which the present firm has developed, was organized in 1857 by three brothers, Lewis, Ethan A., and M. V. B. Chase, and began operations under the title of the Chase Brothers Company. This arrangement continued till about 1880, when Mr. M. V. B. Chase withdrew from the firm. It was then continued by Lewis and Ethan, until 1887, when it was formally incorporated under the name of Chase Brothers Company. The officers were Lewis Chase, president; Ethan A. Chase, treasurer, and William Pitkin, who for a number of years had been associated with the company, secretary. In 1892 Mr. Ethan A. Chase, becoming interested in lands and the natural resources of the Pacific Coast, sold his interest and removed to California, where he is now connected with extensive nursery and orchard enterprises. Some changes in the officers of the company took place at that time, and a little later. The organization now stands with Lewis Chase, president; C. H. Perkins and Henry J. Peck, vice-presidents, and Wm. Pitkin, secretary and treasurer. These men are all prominent in the nursery world, and are regarded as substantial supporters of a conservative, reliable policy in the nursery business. Their interests are wider and deeper than the mere growing of plants; they are touched by the scientific and sentimental as well as financial sides.

Stock ricked up in the packing house of Chase Brothers Company.

The firm stands as one of the great leading retail institutions and the parent of several of this type in the country. Much of this class of its business is done through canvassing salesmen; but in addition to the retail department an extensive wholesale trade is conducted with brother nurserymen. Under the present arrangement the office and business side of the enterprise is separated from the packing, storing and shipping plant. The former is located in the city and occupies a large three-story building where between fifty and sixty clerical assistants are employed throughout the year. The company contemplates uniting the office and packing house end.and it is altogether likely that an office building will be erected adjoining the mammoth packing establishment in the not distant future. The growth, development and prestige of this firm are the legitimate result of native energy, ability, integrity and love for the work.

Sorting, grading and packing vines and small fruit plants. Chase Brothers Company, Rochester, N. Y.

Correspondence.

FRUIT GROWING BECOMING MORE PROFESSIONAL.

EDITOR NATIONAL NURSERYMAN:

I am pleased to say that the trade this fall has been exceptionally good. We have handled more cars of peach and apple trees during the past sixty days (up to Dec. 1), than at any time during our business—that is, since the business has been established. The price of apple stock has ruled fairly low, but we are pleased to say the price is getting stronger and there will be a good demand for apple during the spring, as there will be many large commercial orchards planted next spring.

Many business men who have not before turned their attention to fruit growing are now planting commercial orchards, and this is what will make the demand for large quantities of fruit trees. The smaller growers are not giving the fruit business the attention they did years ago, and it now looks as if the fruit business is drifting in the hands of the large growers, more so than any time during the past twenty years.

Yours very truly,

J. G. HARRISON & SONS.

Berlin, Md.

NATIONAL FLOWER SHOW.

TO MEMBERS OF THE S. A. F. & O. H.:

At the suggestion of Mr. E. G. Hill, upon whose motion the project of a National Flower Show next March was undertaken, I have, after consultation with members of the executive committee and President-elect Kasting, decided that it is not expedient to attempt to hold a National Flower Show in March, 1906.

It is Mr. Hill's contention, and to this our executive committee agrees, that the time is too short between now and March to prepare suitable exhibits, no schedule of premiums having as yet been issued.

It is expected that the committee appointed to secure the $10,000 guarantee fund will continue its work and that this basis for carrying out such a show for 1907 will be secured.

J. C. VAUGHAN, *President.*

Chicago, Dec. 5, 1905.

DANSVILLE A WHOLESALE CENTER.

OVER ONE HUNDRED AND FIFTY CARS SHIPPED THIS FALL.

EDITOR NATIONAL NURSERYMAN:

For the past fifty years Dansville has been one of the nursery centers of the United States, but the season just closed has been the busiest one in its history. There have been loaded in bulk one hundred and fifty-two cars and hundreds of boxes have also been shipped.

The nurserymen here confine themselves to the growing of Cherry, Plum, standard and dwarf Pear and Apple, although a fair quantity and varieties of ornamental trees and shrubs are also produced. The season was an ideal one for the growth of trees and thousands of one-year-old trees reached a sufficient height and calibre, so that they were disposed of as first-class stock. The shortage of Japan Plum in the South made a brisk demand for one-year trees and prices have ruled rather strong. In fact prices on all kinds of stock have been, on the average, stronger than they were last year. The Nurserymen in general have had good sales and feel very much encouraged.

TREE DIGGERS AT WORK.

Stock has ripened well and with an ordinary winter, there should be no damage by frost. Early in the season, it was feared that we would not be able to handle the enormous amount of stock with the available help, but many Italians came here and thus solved that problem for us. There were days when at least eighty horses were at work on the tree diggers, as well as the steam machines being in operation. We were somewhat handicapped in not being able to secure cars for shipments, as promptly as we desired, but we understand this condition was quite general throughout the country.

PLANTINGS FOR 1906.

The plantings for next season will be about as usual, which in the aggregate amounts to several million. Thus far, Dansville is absolutely free from San Jose scale and we are in hopes that by guarding against the importation of outside buds, that we may be able to keep it so. Stock has been pretty well sold and only a small quantity remains for spring trade. The stock left here will all be put in storage.

Collections have been good thus far, which would lead us to believe that the Nurserymen in general, throughout the country, have had a prosperous year.

J. B. MOREY.

Dec. 1, 1905.

OPERATIONS IN VIRGINIA.

INTERESTING NOTES BY A WELL KNOWN FIRM—A DRY DIGGING SEASON.

EDITOR NATIONAL NURSERYMAN:

We were about two weeks behind in our fall shipping this year. We had a very cold winter here, from 1st of last December, 1904, to 1st of March, 1905, which prevented us from doing any outside work, in preparing land for planting, and then March set in very warm and wet. We had very little freezing weather during March to check spring growth, causing us to plant much of our stock after it had pushed; then we had a dry spell after planting, which prevented our apple grafts and cuttings and seed from doing well. Other stock did well, such as peach pits, which we plant after opening in the spring, after setting the pear stock. The growing season was a very good one. We had no trouble except from an insect that worked on terminal buds of peach. The season was such a good one in June and July for peach, that we got excellent growth and made good trees of each grade.

We also had a favorable season for budding and think we have an excellent stand. We budded about 600,000 in all—not more than one-half as many peach the last season

as we did in 1904, but hope to get much larger proportion of salable trees if we do not have some winter or spring troubles. In the summer of 1904 we budded nearly 700,000 peach stocks and did not get more than 50 per cent. of them to start after cutting back. They would have done better but we were late in getting them budded and in one block of 200,000 we had very poor stand of buds.

BUSINESS METHODS.

Our business is done mostly through agents and we have only been growing what we thought we could sell, but if we have a surplus we offer it to the trade after our agents' sales are made up. Our sales through agents dropped off about $3,000 in the season of 1905. We also have some dealers who sell from catalogue, the same as our agents, except that we do not advance money on these sales, and do not have to pay their freights. We do all of their billing and writing tags, which saves them from coming to our grounds. The sales of these men have increased for the past season so that we will have about the same amount of stock, or more, to handle this fall as last. Dealers are more difficult to deal with than agents when it comes to packing their trees, as we have to promise them at definite dates, and this is impracticable with seasons like that we are passing through now.

THE LABOR PROBLEM.

The past season, labor has been very indifferent, especially the floating labor, upon which we have to depend more or less during our busy season. Our regular labor, especially the colored men, is less satisfactory than formerly. They require very little upon which to exist, it is true, but they lose more time than formerly. On Saturdays and Mondays their ranks are very thin.

The season: we have passed through one of the dryest digging seasons since 1881, not having had a good rain since early in August, and practically none since we commenced to take up trees. We commenced the 1st of October with *pick* and *spade* and have been using them ever since—forty men not digging more than five or six would ordinarily. There are compensations, however. The fall has been a very good one for packing.

We will be well cleaned up on fruit trees this fall, and for spring will have to use one-year trees of apple and pear—especially in early apples. We had to use a good many one-year apples this fall of some varieties that we were unable to secure. We were obliged also to throw many away on account of root gall, so that we could not depend on full count, and suppose others in this region were in the same fix.

We will have our usual stock for fall of 1906, rather more pears than usual but not many cherry or plum. Do not think there has been much growth of the nursery business in our State for several years, as low prices and root gall have discouraged nurserymen from growing fruit trees, especially apple, which were largely grown in earlier years. A number of nurserymen have gone out of the business entirely, owing to these difficulties.

W. T. Hood.

Richmond, Va.

NATIONAL RETAIL NURSERYMEN'S ASSOCIATION ANNUAL DINNER, ROCHESTER, N. Y.

Members of this association are actively planning to take part in the annual social gathering which has now come to be a recognized part of the organization. Last year the dinner at the masonic chambers in Rochester was a most enjoyable event. This year the dinner will be held on the evening of January 23rd, immediately preceding the meeting of the Western New York Horticultural Society.

A full representation of allied organizations is expected. The interest in Texas and the Southwest is keen just now and it seems appropriate that Stanley Watson and ex-President Kirkpatrick have been invited and are expected to attend and speak with other men prominent in nursery circles.

The dinner arrangements are in the hands of a competent committee composed of D. Frank Allen, chairman; Walter Wyman and Edwin Osborn, all of Rochester. A competent *referee* will be chosen to administer the toasts and the local organization is *fully satisfied* that everything will work for the profit and pleasure of the occasion.

CARD OF THANKS FROM PRESIDENT ALBERTSON.

Editor National Nurseryman:

Allow me to extend through the medium of your columns my hearty thanks to the members of the American Association of Nurserymen who responded so promptly and liberally in response to my call for funds to prosecute the important work of the Transportation and Legislative Committees.

A list of contributors appeared in the December issue and subsequent donations will be acknowledged as they are forwarded to the Treasurer.

I am glad to say that the amount subscribed assures the continuance of the administrative work of the Association during the current year.

With warm thanks and hearty good wishes for a successful new year, believe me,

Yours Sincerely,

EMORY ALBERTSON,

President American Association of Nurserymen.

Bridgeport, Ind., Dec. 23, 1905.

WEBER & SONS' CIVIC IMPROVEMENT WORK.

We learn from a tree planting pamphlet, being a report of a committee of the Civic Improvement League of St. Louis, that important things are on foot there in connection with the beautifying of the town. Some good christian has offered prizes to the amount of $500 to the pupils in the public schools who will secure the largest number of orders for shade trees, to be planted in the city according to plans and specifications prepared by this committee. Mr. F. A. Weber is a member of this committee, and the firm of Weber & Sons, Nursery, Mo., have agreed to provide the trees for filling the school children's orders. The child who wins first prize secures $200, and there are other prizes of one hundred, seventy-five, fifty, and several ten dollar prizes. We are informed that this scheme has resulted in a tremendous amount of activity on the part of the school children, which will finally culminate in the addition of many thousands of shade trees to the streets and boulevards, lawns and private banks of that beautiful city.

The National Nurseryman

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

Official Journal of American Association of Nurserymen.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Six Months, ... 1.00

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., JANUARY, 1906.

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Exhibits—J. H. Skinner, Topeka, Kas.; J. C. Hale, Winchester, Tenn.; C. C. Mayhew, Sherman, Tex.

Editing Report—J. Horace McFarland, Harrisburg, Pa.; J. C. Maloy, Rochester, N Y.; George C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton. O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN ASSOCIATION OF WHOLESALE NURSERYMEN—President, Peter Youngers, Geneva, Nebraska; vice-president, A. Willis, Ottawa, Kansas; secretary, D. J. Holman, Leavenworth, Kansas.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, Orlando Harrison, Berlin, Md; vice-president, John A. Young, Greensboro, N. C.; secretary-treasurer, Chas. T. Smith, Concord, Ga Meets at Chattanooga, Tenn., third Wednesday in August, 1906.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary, John B. Kiley, Rochester, N. Y.

FALL AND SPRING PLANTING.

There is a too evident desire on the part of some of our horticultural journals to write in terms of broad generalization on the question of fall or spring planting. It is misleading and dangerous for any journal to say that September or October is the best time for transplanting trees and shrubs in all parts of the country. It all depends where you are. The injury which comes to fall planted trees may often be accurately predetermined by a knowledge of the amount of humidity in the atmosphere. In the dry regions of the Middle West, fall planting is absolutely dangerous, while in the humid regions of the East and Atlantic Coast it is not only safe but altogether desirable. Therefore, horticultural advisers should discriminate and should speak in terms of regions and districts rather than in terms of continents.

CIVIC IMPROVEMENT.

One of the great nation wide movements now in progress is that relating to the improvement of our towns and villages from the sanitary, economic and æsthetic standpoints. Important examples of the influence of local societies are forthcoming in every issue of country and city papers. Some of the most frequent violations of public utilities and æsthetics are seen in the mutilation of shade trees by telephone and telegraph companies. Syracuse has recently given an example of the possibilities of good results following sentiment awakened by a civic association. The mayor of that city is bringing about an agreement whereby two telephone companies may use the same poles for their wires. When co-operative action of this kind is secured, these eye-sores of civic beauty are reduced in number, but the millennium in this respect will certainly not be reached until all wires connected with electric service are placed in conduits underground.

THE NEW GERMAN TARIFF.

The fruit grower, and more especially the fruit exporter, should be particularly interested in some features of the new tariff law recently passed by the German Reichstag. This will go into effect March first, 1906, and is to remain in force until the close of the year 1917. This tariff consists of a double set of duties: The "general" rates, which received the sanction of law December 25, 1905, although they have not yet been enforced, and the "conventional" rates, or those arrived at by bargaining with foreign countries. These are the two sets. The items which particularly interest fruit growers are those on various fruit products. American apples appear to be practically prohibited by the provisions of the new tariff. There is no tariff on fresh apples not packed, but of course it is impracticable to ship apples in bulk from United States to any of the German ports. Probably sacking them could be considered as being within the provisions of the law, but even this would not be feasible. The tariff on packed apples amounts to $1.08 per hundred pounds, or about $1.50 per barrel. Upon dried apples, pears, and stone fruits, it amounts to $1.43 per hundred pounds. The present duty on dried

fruit is 43 cents per hundred pounds, while fresh fruit is free. It will be very difficult for shippers to overcome such a heavy handicap as this.

A number of the florists of the country are feeling injured by the report of the agricultural department at Washington, which has shown various degrees of adulteration in the samples of clover and alfalfa seed which they have offered to the purchasing world during the past year. They forget that the Department of Agriculture is empowered and enjoined by act of Congress to purchase in the open market, samples of seed to be examined and reported upon as to their quality and impurities.

ADULTERATED SEEDS.

The present season in the seed world has been marked by an unusual demand for alfalfa seed. This has stimulated the adulteration of the seed by unscrupulous manipulators in Europe and perhaps in this country. For instance, a great deal of "burr clover" was sold for alfalfa seed, and in many cases alfalfa was adulterated with this and other similar types of seed. Of course, there is an element of unfairness in the Department's report, because many of the dealers in this country who handled the adulterated seed did it in all good faith, and were entirely innocent of any knowledge of the fraud practiced by the first handler. The incident will have the effect of making dealers much more careful in the future than they have been in the past.

Some time ago this journal called attention to the desirability of establishing definite standards for the different grades of nursery stock, these standards to be clearly defined just as the standards for apples, wheat, and other products are described. No shipping season passes without some misunderstanding arising between two nurserymen in regard to the quality and grade of goods. These misunderstandings are largely the outcome of differing views in reference to what the grades themselves mean. One nurseryman may think that a few root knots are no bar to the placing of certain trees in class 1; another that blackheartedness in pears is a varietal or sectional characteristic, and, therefore, does not lower the grade of the stock; another one that root aphis is nearly always found on certain stock in certain regions, and, therefore, a few of these should pass through without notice. This condition of affairs simply shows that the holders of these opinions are not thoroughly posted on what the term *first-class* means, and have not been practicing the most rigid grading methods imaginable. If nurserymen exchange stock of questionable character among themselves, it is much more than probable that a nurseryman of this type will send out with little stress of conscience, stock of this character to the laymen. Therefore, there seems to us very special reasons why definite standards should be formulated and lived up to. This subject was presented at the last annual meeting, but was not sufficiently discussed. Let us hope that it will appear on the docket again next year and receive fuller consideration.

THE ESTABLISHMENT OF NURSERY STANDARDS.

We trust that our readers have observed and appreciated the illustrated sketches of prominent nursery regions and nursery firms which have appeared in recent issues. This is a line of effort we expect to continue and develop more perfectly from the standpoint of faithful representation as to fact, a higher type of literary production and better artistic display. We are of the opinion that nurserymen as a class do not exhibit, although they undoubtedly possess, that pride of spirit, (not vanity of spirit), which enables them to show in a dignified and impressive way the resources of their immediate locality, and incidentally the part which the individual firm under question has had in building up and adding to these natural or acquired resources. We are glad to acknowledge the friendly criticism of some of our subscribers and to say in general terms that the suggestions have in the main been excellent. We welcome these criticisms offered in friendly spirit, and we shall endeavor to put those which are feasible and practical into effect. That this department in the NURSERYMAN has been popular, and is likely to increase in popularity, we have no doubt; but we wish to repeat that we welcome suggestions and criticism and hope our friends will remember this.

RECORDS OF PROGRESS.

The American Civic Association is making earnest and apparently efficient efforts for the preservation of New York's great natural wonder, Niagara Falls. If we are to believe the word of competent engineers, and there seems no reason to doubt it, the enterprises which are now pending in connection with the installation of power companies will, when completed, having shorn from Niagara the great feature which has since the discovery of the country brought visitors in increasing numbers each year to see the wonders of this magnificent cataract. The gorge and cliff will remain but without the roaring waters. The American Civic Association has through the press and by public meeting taken an active stand against the despoliation of this great natural feature. Recently a committee called upon President Roosevelt and urged that some steps should be taken to prevent the destruction. President Roosevelt expressed himself decidedly and unequivocally on the subject, stating that as California has given a great grove of big trees to the nation, so New York should give Niagara to the nation, but if New York does not do so, then the American people must step in and preserve Niagara.

THE PRESERVATION OF NIAGARA.

The President and the executive of the American Civic Association request all persons interested in this matter of great public concern to write to their senators and congressmen urging international action to save Niagara.

Public sentiment is the greatest motive power we have in this world, and it can be aroused and should be aroused in connection with this all-important matter. Let every one who is possessed of patriotism and whose eye for the æsthetics of nature is not thoroughly dimmed by utilitarian and financial schemes help this work along. Write to your senator and your congressman, and do it at once.

LINES OF NURSERY DEVELOPMENT.

Most progressive nurserymen are increasing the scope of their business. It is interesting to inquire in what directions that increase is travelling. Are there proportionately more fruit trees being planted now than formerly, or is the fruit tree plant, more or less stationary, and the ornamental plant increasing? A somewhat careful survey of the situation the country over leads to the conclusion that most of the development lies along the line of the ornamentals. Firms which began years ago as exclusive growers of fruit are now dividing their attention more or less evenly between their fruit plants and their ornamental stock. This growth has not been a result of the direct efforts of the nurserymen, but rather a response on the part of the nurserymen to the demands of the trade. We may inquire the reason. It simply means that more money is in circulation, that the mass of the American people are better able to afford these things, which were formerly termed luxuries but are now regarded as necessities, realizing that the completing of the æsthetic side of home life should be considered in the light of a utility rather than a luxury. Hence the demand for the things which beautify and make the park, the street, the boulevard, the home lawn more attractive.

As new regions are developed and as the adaptations of varieties and classes of plants are more accurately worked out and understood, the demand for fruit trees will probably enlarge. But it is hardly reasonable to expect that the scope of the fruit tree grower will be very much enlarged and widened in the future, because only a certain percentage are to be growers of these economic products, while the rank and file are to be growers in greater or less extent of the things which tend to ameliorate and improve the exterior surroundings of that all important unit of every community, the home.

AN INTERSTATE PARK.

The New York *Times* states that the Interstate Park for which the people of New York and New Jersey have had to fight so hard, is now an assured fact. It will extend fourteen miles along the west bank of the Hudson. This is the result of the agitation against the blasting away of the Palisades, which tower to the height of from 300 to 600 feet from Fort Lee to Piermont. Already the commissioner has expended $344,264 in laying out this park. In order to carry out the plans of the commission it will be necessary to acquire 175,000 acres, but there is a large sum still in the treasury, and the two states have agreed to bear an equal amount of the additional expense that will be necessary to make this park one of the most beautiful in the country. Work is just being begun on a boulevard that will extend the entire length of the park.

"SCIENCE."

The *Florists' Exchange* greets its subscribers on December 9, in colors of red and green to celebrate the Christmas number.

THE DALLAS MEETING.

IMPRESSIONS OF THE FRUIT GROWING OF TEXAS BY PRESIDENT ALBERTSON.

"I think there are more peach trees, as well as lots of apples and plums, being planted in Texas than in any two states in the Union; it is also getting to be the greatest pecan state in the Union, one factory having reported the consumption of over one hundred carloads of pecans last year!" said Mr. Albertson, in a recent interview with a representative of THE NATIONAL NURSERYMAN.

In regard to the country, Texas is developing very rapidly. I consider that there is great opportunity for development there, and there are going to be more changes in the fruit growing of Texas than in any other state in the Union, in the near future. The state has wonderful undeveloped possibilities.

As to the interest shown by Texas concerning the coming meeting—people are enthusiastic from one end of the state to the other. The commercial interests in the regions we are going to visit, are going to open the doors and give us every entertainment that is possible and that we have time for."

NOT TOO MUCH PROGRAM.

"At the convention there will be one session a day for three days, the rest of the time to be given to social and entertainment features, as well as the committee work and meetings of allied associations.

GREAT INTEREST EAST AND WEST.

"I am surprised at the amount of interest being taken in the meeting, both in the East and the West. So many men are planning to go, not alone, but with their wives, that I am confidently looking forward to a large attendance. That interest is being manifested partly on account of the location; people are anxious to see the great state of Texas. The general interest is also being stimulated by the excellent work of the transportation and legislation committees. They are seeing the benefits of it, and want to attend the conventions more regularly."

ATTRACTIVE REGIONS TO BE VISITED.

"One of the pleasantest features of my trip in Texas was the side excursion to San Antonio and Galveston. At Galveston we saw the wonderful sea walls and the immense amount of work they are doing in filling up the lower parts of the city, raising some portions of it as much as fifteen feet. On the trip to San Antonio, where I was entertained by the superintendent of parks, and our fellow member, Mr. Knox, I took one of the most beautiful drives I have ever had, through their natural parks under the live oaks and immense pecan trees planted with attractive undergrowth. Here we find the moss hanging from these immense trees almost to the ground. The old Alamo and the old Spanish missions were also interesting features. The members attending the convention will have a chance to see all these points of interest as well as the extensive fruit plantations. They should allow themselves plenty of time for the trip."

IMPORTANT RESOLUTIONS BY AMERICAN HORTICULTURAL INSPECTORS.

FUMIGATION URGED—UNIFORM TAG SYSTEM—CROWN GALL DANGEROUS—DELEGATION FOR TEXAS.

The following resolutions were passed by the American Horticultural Inspectors, at their recent convention held in Washington:

RESOLVED, That it is the sense of those present that all nursery stock be fumigated before planted.

RESOLVED, That the former action of this Association, that nurserymen should not be required to pay the ordinary expenses of inspection, be reaffirmed.

RESOLVED, That it is the sense of those present that it is unjust for the authorities of any state to charge a license fee for non-resident nurserymen.

RESOLVED, That it is the sense of those present that it is undesirable to establish a license system for resident nurserymen of a state.

RESOLVED, That a nursery in the inspector's sense is a place where hardy fruit and ornamental trees, vines, shrubs, or plants are grown for sale or distribution.

UNIFORM TAG.

RESOLVED, That a committee of three be elected by ballot by this association to have charge of issuing one tag, good to admit nursery stock into all states requiring tags. Said committee to elect a secretary, who shall secure a statement from the official inspector of the state of each nursery wishing to do interstate business, as to the exact conditions of said nursery, and if satisfactory to issue the nurseryman the official tags of the committee at such cost as the committee may decide. In case the conditions of such nursery are such as to make the allowing of his interstate business doubtful, the statement of his condition must be submitted to all members of this committee and a certificate issued only on approval of all members. The committee also recommends that a designated color of tag or certificate be used by this committee and a separate color by all state inspectors for all other shipments of nursery stock not using interstate tags, for each shipping year. And we recommend the adoption of this measure by all boards of control or states involved.

Committee elected: S. A. Forbes, A. F. Burgess, R. I. Smith.

REVISION OF BULLETIN 13.

RESOLVED, That the Association of Horticultural Inspectors, through its secretary, respectfully requests the Honorable Secretary of Agriculture, that a revision of Bulletin No. 13, New Series, Division of Entomology be published, giving brief, explicit directions to nurserymen as to the method of compliance with the laws or regulations of each state, and the regulations of states in addition to their laws, and that the previous and present proceedings of this association be published in this bulletin, the same to be edited by a committee of this association and published under the supervision of the Chief of the Bureau of Entomology.

CROWN GALL AND GIPSY MOTH DANGEROUS.

RESOLVED, That it is the sense of those present that in the present state of our knowledge regarding crown gall that it is advisable that all nursery trees and plants showing evidence of this disease at digging time should be destroyed.

RESOLVED, That the National Association of Horticultural Inspectors urges ample appropriations by Congress to control the spread of the Gipsy Moth. And

RESOLVED, That this be communicated to the Honorable Secretary of Agriculture and to the Chairman of the Committee of Agriculture of the House of Representatives and Senate of the United States by the secretary of this Association. And

RESOLVED, That a committee of this Association be appointed which shall co-operate in drafting and aiding in every way possible the passage of such legislation, and report at the next meeting of this Association.

FORM OF CERTIFICATE.

RESOLVED, that the following form shall be the uniform certificate for adoption.

"This is to certify that in accordance with Chapter.... .... the nursery stock for sale by..... ..... of..... .....has been inspected by a duly authorized inspector and has been found apparently free from dangerously injurious insects and plant diseases.
Invalid after July 1, 190..."

RESOLVED, by the American Association of Horticultural Inspectors that as a committee of the American Association of Nurserymen has at this meeting requested that a delegation from this association be instructed to attend the next annual meeting of the said Nurserymen's Association at Dallas, Texas, June 1906 to consider matters of vital common interest relative to regulations concerning the control of nursery stock; that the appointment of Prof. Newell of La., Prof. Smith of Ga. and Prof. McIntosh of Ala., be made to form such a delegation and that the State Board of Agriculture in their respective states be informed of this action with the recommendation that provision be made by them for the expenses incident in attending the aforesaid meeting.

RESOLVED, that the time and place of our next meeting be left to the officers of the Association.

Officers for the coming year.
Chairman S. A. Forbes, Illinois.
Vice-Chairman J. B. Smith, New Jersey.
Secretary A. F. Burgess, Ohio.

Note and Comment.

FARMERS' INSTITUTES.

Three thousand ninety-six Farmers' Institutes were held in the various states in which this work is carried on last year. The only states and territories where institute work was not conducted were Florida, South Dakota, Indian Territory, Alaska, and Porto Rico. The total cost of this work was $219,541, and the number of institute lectures amounted to 992.

THE "MUM" SEASON.

The chrysanthemum season has come and gone, and the popularity of this great member of the floral world is more firmly entrenched in the popular and horticultural industrial world than ever. Probably more space has been given to this flower in floricultural journals in 1905 than ever before.

APPLES IN STORAGE.

It is estimated that 350,000 barrels of apples are stored (December 10) in the store houses on the Falls Road from Lockport to Rochester, N.Y. Last year at the same time it was currently stated that the apples in storage amounted to between two and three million barrels.

LOUISIANA CROP PEST COMMISSION—LEGISLATIVE ACTION.

At a recent meeting of the Crop Pest Commission of Louisiana several important new rules and regulations were adopted. The Mexican cotton boll weevil and the San Jose scale were placed among the pests of first-class importance. A quarantine was declared to exist against over 130 counties in the State of Texas. Certain parishes in Louisiana were also quarantined. The shipping of cotton seed, hulls or seed cotton from infested sections of Louisiana or Texas into other uninfested sections of Louisiana was prohibited. The full text of the commission's doings can be obtained from the secretary, Wilmon Newell, Shreeveport, La.

The world's wine production in 1905 is estimated at 4,661,280,250 gallons.

Fruit and Plant Notes.

ROT-PROOF PEACHES.

There appears to be an important field open to the breeder of fruits in the line of producing a peach insusceptible, if not immune, to soft rot. Mr. Charles Black, of New Jersey, is of the opinion that the texture of the flesh has much more to do with susceptibility to rot than the character of the skin. He finds that peaches of the Chinese type are relatively free from rot while those of the Crawford group readily fall victims. Elberta rots less than many other varieties, and this he attributes to the character of its flesh, which is usually dry and sometimes dryer.

VARIETIES OF APPLES FOR EASTERN NEW YORK.

The question of what varieties of apples to plant in eastern New York, where many of the growers are considering the question of growing high grade fruits for the special markets of that great city is answered by Mr. Geo. T. Powell of Columbia County, writing in the *American Agriculturist* recommends the following early varieties, beginning with the latter part of July and continuing in season until Christmas: Astrachan, Williams, Yellow Transparent, Sweet Bough, Duchess, Gravenstein, Fall Strawberry, Fall Pippin, and McIntosh. For winter needs he recommends Baldwin, Sutton Beauty, King, Rhode Island Greening, Spy, Newton, Spitzenburg and Pound Sweet. This is probably too large a list for most growers, but out of the group it is not difficult to make a selection that will satisfactorily cover the season.

THE EVELYN APPLE.

Minnesota has long been searching for a winter apple. She has been holding up a prize of a thousand dollars to the person who would produce an apple of the quality and appearance of Wealthy, and the keeping ability of a mid-winter variety. The Evelyn promises to approximate that standard. It was originated by H. M. Lyman, of Excelsior, Minn., from Wealthy seed. The fruit is of fair size, regular form, and attractive in appearance. It is reckoned as being of good quality and ripens in early winter. The tree is a vigorous spreading grower, and grades in hardiness with the Wealthy. It was one of the promising varieties of apples mentioned by Pomologist Brackett at the last meeting of the American Pomological Society.

MULCHING SMALL FRUITS.

The mulching of raspberries has often been recommended for various purposes, and to secure different effects. The Tennessee Experiment Station finds that mulched raspberries come through the winter very much better on their grounds than those not mulched. Not only did they escape the winter injury, but the growth the following season was much greater on the mulched rows than on the unmulched. The material used was mainly bean hulls.

VARIETIES OF STRAWBERRIES FOR TENNESSEE.

Among the earliest of the strawberries tested at the Tennessee Experiment Station are Excelsior, Carrie and Klondike. The latter is thought to be the most profitable of this group. Among the largest yielders are Clyde, Warfield and Haverland, and among the best in quality are Parson's Beauty, William Belt and Miller.

RESISTANT STOCKS FOR EUROPEAN GRAPES.

The pomological division of the Department of Agriculture has been interesting itself in testing resistant stocks for the European grape in North Carolina and Florida. The work has not progressed very far, but sufficiently to warrant the statement that certain of the choice European kinds may be successfully cultivated when grafted upon resistant native stocks, and when thoroughly sprayed to prevent fungous diseases.

CONGRESS BARS FLOWERS.

For some reason or another, best known to Speaker Cannon of the United States Congress, all flowers were debarred from the Senate and representative chambers on the opening day. They could be sent to the lobby, but were not given admission to the interior of the Houses.

Our Book Table.

"The Chrysanthemum," by Arthur Herrington, published by the Orange, Judd Co. 6 3-4″ x 5″. 160 pages, including index. Illustrated with thirty-two half tone pictures. Price, $0.50.

This book is written from the view point of the expert amateur, and by one who is thoroughly acquainted with types, varieties, and methods of exhibiting and judging chrysanthemums. The purely commercial side of the business is treated in one short chapter. This looks on the face of it like unfair discrimination, but after all, the amateur is the person who is interested in a book on chrysanthemums. The amateur is the man who studies special methods; he is the man whose enthusiasm carries him into experimentation and exhibition work. The author has included in his book, articles by specialists in different parts of the country. One on the growing of plants in six-inch pots; another on the raising of chrysanthemums from seed—this latter a most interesting one by Mr. E. J. Hill, of Richmond; another by R. A. Vincent of Whitmarsh, Md., on hardy chrysanthemums. The book includes a description of the leading types, and a score card for the use of judges. While many little criticisms regarding the style and method of presentation might be made, yet such matters are of minor importance, when the author presents real information from the standpoint of the man who has done things. From this standpoint the book is to be heartily commended, and will undoubtedly be much appreciated by the great army of chrysanthemum growers.

IOWA PARK AND FORESTRY ASSOCIATION.

The proceedings of the Iowa Park and Forestry Association, published by the Iowa State Horticultural Society, is a volume of 117 pages, and includes a number of interesting articles relating to forestry and park management. Added to the volume are a number of biographical sketches of men who have been instrumental in forwarding the æsthetic and economic tree interests of Iowa.

CATALOGUES RECEIVED.

Wholesale trade and price list of the Mount Arbor Nurseries, Shenandoah, Ia.

The M. J. Wragg Nursery Co., Des Moines, Ia. Catalogue of plants, shrubs, fruits, and ornamental trees adapted to the Mississippi Valley, with a special chapter on landscape gardening. A very attractive pamphlet.

Harlan P Kelsey, the Highland Nursery, Boston, Mass. Catalogue of hardy American plants, handsomely illustrated and full of desirable hardy American plants.

Wholesale catalogue of the Waukegan Nurseries, Waukegan, Ill. Evergreens a specialty.

Wholesale trade price list of the Tarlton Nurseries, Tarlton, Tenn. Ornamental and shade trees and tree seeds specialties.

FINE ANJOU PEARS.

The editorial office of the NATIONAL NURSERYMAN wishes to acknowledge a box of magnificent Anjou pears with which it has been kindly favored by Messrs. Ellwanger & Barry of Rochester. This firm has long been noted for the great collection of pears, many of them unknown in trade lists, annually grown on their home grounds. Not less famous than this collection is the quality of the Anjou pears exhibited each year at the meetings of the Western New York Society, the New York State Horticultural Society, and other exhibitions in and out of the State. This box contained specimens fully up to the standard, and exhibits this fine pear at its best, both as to size and quality.

FRUIT GROWERS ORGANIZE.

Growers of canteloups in west Tennessee are organizing. Some fifteen or sixteen local associations in the western part of the state have combined and will attempt to market their fruit in a co-operative manner. The industrial agent of the Louisville & Nashville Railway has been instrumental in bringing about this combination.

Doings of Societies.

MANY HORTICULTURAL MEETINGS.

MICHIGAN: December was a great meeting month for some of the leading societies of the middle West. On the 5th, 6th and 7th, the Michigan State Horticultural Society in conjunction with the Grand River Valley Horticultural Society, met at Grand Rapids, and carried through a very interesting program, in which Messrs. Taft and Fletcher of Michigan, Taylor of Washington, and Gulley of Connecticut took part.

ILLINOIS: The Illinois State Horticultural Society held its 50th annual meeting at Champagne, December 12-15. This meeting largely partook of the historical type, and was essentially a round-up of the work of the state society from its inception to this, its 50th annual meeting. Among those who contributed important parts to the program were Arthur Bryant of Princeton; E. A. Riehl, Alton; H. M. Dunlap, Savoy; Dr. T. J. Burrill, Champagne; Prof. A. T. Erwin, Iowa State College and Dr. S. A. Forbes, state entomologist of Ill.

KANSAS: The Kansas horticulturists met in Topeka, December 26, 27 and 28. Their meeting consisted largely of a discussion of ideals, following out the suggestion given by the American Pomological Society at its Boston meeting in 1903. Everything ideal on the apple and plum, to the home and the wife were discussed. Whether the individual in each case was equal to the task is another question. Among the out-of-state speakers present were Messers. Whitten of Missouri, Hansen of Dakota and Beach of Iowa.

MISSOURI: Missouri is two years behind Illinois, measured by the standard of the age of her horticultural society. The 48th annual meeting was held in the Coates House, Kansas City, December 28-30. This meeting followed the Kansas meeting very closely, and the same out-of-state speakers appeared on the program.

SOCIETY FOR HORTICULTURAL SCIENCE.

This association of College and Experiment Station Horticulturists met in New Orleans on December 27th and discussed papers by Burnette of La., Munson of Texas, Beech of Iowa, Rane of N. H., Hedrick of N. Y., and Corbett of Washington. President, L. H. Bailey, New York; Secretary, V. A. Clark, Tucson, Arizona.

ALABAMA STATE HORTICULTURAL SOCIETY.

The third annual meeting will be held at Thorsby, Alabama, on January 30 and 31, 1906. The citizens of Thorsby offer free entertainment to all members of the society. An interesting program is being arranged. Thorsby is midway between Montgomery and Birmingham. All the people are interested in fruit growing and will give our members a royal welcome. W. F. Heikes, President, Huntsville; R. S. Mackintosh, Secretary, Auburn.

COOPERAGE SOCIETY.

The seventh semi-annual meeting of the National Slack Cooperage Association was held in Chicago on November 8th. The meeting was largely attended, and one of the topics under discussion was the question of transportation. Forestry service to the man interested in cooperage was also discussed by Mr. Levison of the U. S. Department of Forest Service.

PRESIDENT ALBERTSON MAKES EASTERN TOUR.

Rochester, Dansville, Geneva, Newark, Ithaca and other points in the east were favored by a business visit from President Emery Albertson shortly before Christmas. To a representative, Mr. Albertson spoke in warm terms of the handsome manner in which the members of the Association responded to his appeal for contributions to aid the work of the transportation and legislative committees. He was also very optimistic in regard to the outcome of the joint meeting of the nurserymen and state inspectors in Washington in November. Mr. Albertson believes that important results will accrue in proportion as nurserymen in their respective states take hold and push the work. Read resolutions passed by entomologists on page 9.

Personal and General.

The Stark Bros. Nurseries and Orchards Co. report an unusually fine crop and grade of apple seedlings this year, grown at Atlantic, Ia. These are from Vermont seed and seem to take kindly to the soil conditions prevailing in this section.

CHANGE OF ADDRESS.

The Giles County Nursery Company, of Lynnville, Tenn., is changing headquarters from that town to Pulaski, Tenn., where it will be located in future. The company is planting out a large block of trees at Pulaski, and will be immediately in shape to do business from that point.

MR. F. A. WEBER IN THE EAST.

Mr. F. A. Weber of the firm of H. J. Weber & Sons Nursery Co., Nursery, Mo., completed an extensive tour of the east in the interests of his firm, during the month of December. He made a call on Dansville and Rochester nurserymen on the 13th and 14th, and from thence went to Geneva and Philadelphia. Mr. Weber reports a fair business season, but an exceedingly wet autumn.

PEACOCK ASSIGNS.

L. K. Peacock Co., the noted dahlia growers of Atco, N. J., turned their stock over to a receiver for the benefit of their creditors, on November 16th. That the business will be continued, and that Mr. Peacock, the enthusiastic dahlia expert, will be connected with it is the earnest wish of all his friends and all lovers of this interesting group of plants.

CHAS. E. GREENING'S FINE RESIDENCE.

Every nurseryman can afford to have well planted and well decorated grounds. Not all can indulge in the luxury of handsomely improved and finished interiors. We have before us a copy of the *Monroe* (Mich.) *Democrat*, giving an interesting illustrated account of a handsome new residence recently completed by Mr. Chas. E. Greening, of the firm of Greening Bros., Monroe, Mich. The description impresses the fact that the house, while artistic and expensive, was built essentially and primarily as a home—a place in which to live and enjoy life. We congratulate Mr. Greening on this opportunity for the full enjoyment of the less arduous hours stolen from the press and necessities of business life.

MR. F. W. KELSEY AND PARK IMPROVEMENT.

In the New York *Tribune* of November 24th, Mr. Frederick W. Kelsey calls attention to the possibility of iujury destroying many of the handsome oak trees alongside Prospect Park, Brooklyn, in the providing a storage yard for the Interborough cars. Mr. Kelsey has been doing excellent work in promoting park development in the Oranges, but his interests, however, are not limited by the boundaries of his own county.

THOMAS MEEHAN & SONS PURCHASE EXTENSIVE COLLECTION OF PEONIES.

Thomas Meehan & Sons, incorporated, have purchased the extensive collection of seedling and named varieties of peonies developed by that enthusiastic peony grower, H. A. Terry, of Iowa. For many years Mr. Terry has been a noted plant breeder, and his energies have been distributed over the ornamental plant field as well as the orchard type of fruits. His collection of peonies is said to be the finest in the west, and the east is to be congratulated on securing this important addition to its herbaceous flora through the enterprise of the Messrs. Meehan.

FLORIDA ORANGES.

There is considerable complaint in the Philadelphia and New York markets regarding the quality of Florida oranges. In the early part of January a sharp falling off occurred in market prices, especially in Philadelphia, which seems to be properly chargeable to the inferior grade of fruit.

Among the Experiment Station Workers

PROGRESS OF THE YEAR.

INSECTICIDES.

VIRGINIA. Bulletin 152, gives experiments with caustic soda, consol and kils-o-cale, as preventives for San José scale. The author concludes that con sol and kil-o-scale are practically of some value in controlling San José scale. Both of these substances, however, cost considerably more than the standard remedy; lime and sulphur. To offset this, is the labor of preparing lime and sulphur which, however, these experimenters do not regard as being equal to the extra amount charged for the patent insecticide. The final recommendation is that caustic soda is not equal to the other mixtures and that lime and sulphur prove as effective as the patent mixtures and being much cheaper, were therefore recommended for general use.

NEBRASKA. Bulletin 88. "Apple Scab and Cedar Rust." Fruit growers in the west have considerable trouble with a fungous disease known as "apple rust." This increases when red cedars are growing in proximity to the orchard, for these trees harbor one form of the apple rust fungus. The experiments outlined in this bulletin warrant the conclusion that cedar rust can be controlled by spraying with Bordeaux mixture. The spraying should be done about the time necessary to spray for apple scab.

APPLE CURCULIO.

ILLINOIS. Bulletin 98. "The Curculio of the Apple." This bulletin outlines a comprehensive study of the habits of the apple curculio. The writer's conclusions are that much of the injury to apples can be traced to poor orchard management. Where trees are neglected, where rubbish collects, in the fence corners and grass is allowed to grow unrestrained, excellent harboring places for curculio are provided. In preventing this, therefore, good orchard management is fundamental. Second: They may be checked by spraying with arsenical poisons. Third: The number of destructive insects may be greatly lessened by destroying the fallen fruit

ALABAMA. Bulletin 132, contains a popular account of the principal diseases of orchard fruits with methods of treatment.

This bulletin also contains references to the principal publications on the subject. As a popular work of reference it should be of special value to the nurserymen of Alabama.

NITROGEN COLLECTORS.

MICHIGAN. Bulletin 224. This bulletin contains observations on the influence of nodules on the roots, upon the composition of soy beans and cow peas. The authors point out that the nodules do not always insure a larger growth of plant. But their experiments show that cow peas grown in an inoculated plot were 47% richer in protein than those plants which were free from root nodules. In other words, while there was no apparent difference in the growth of the plants yet one lot was much richer and therefore more valuable as cattle food than the other. It was also found that the seed itself was richer and that the larger amount of protein was not confined to the composition of the stalk, but was a part of the character of the seed as well. The writers conclude, therefore, that while inoculation or the presence of nodules on the roots may not always increase the crop yield, yet it increases the relative amount of nitrogen in the plant.

APPLES IN OREGON.

OREGON. Bulletin 82 from the experiment station at Corvallis is devoted to a popular discussion of the apple growing in Oregon. The general subjects of orchard management are discussed in detail, in addition to a collection of opinions as to suitable varieties of different kinds of apples for family and commercial orchards. The bulletin is illustrated, but the illustrations are so poor that they might well have been replaced to advantage by the simplest form of diagrams. Otherwise we have no doubt that the bulletin will be of service to northwest Pacific coast fruit growers.

DELAWARE. Bulletin 70 discusses the life history and remedies for the leading diseases of the principal truck crops grown in Delaware. This is a technical rather than a popular bulletin.

VIRGINIA. Bulletin 154 of the Virginia Experiment Station gives a discourse on the inoculation and cultivation of alfalfa. This is timely inasmuch as interest on this subject is well keyed up at the present time.

Bulletin 155 of the Virginia Experiment Station gives the meterological data from 1893 to 1904. By means of charts and curves the means and extremes of the climate are well shown.

DEPARTMENT OF AGRICULTURE. "Spraying for Cucumber and Melon Diseases." This is the title of Farmers' Bulletin No. 231, which contains a large amount of useful information relating to a crop in field and under glass, now of great commercial importance in many of the states of the Union.

Bulletin 228, forest service, is entitled "Forest Planting and Farm Management." It contains suggestions for the management of the farmer's wood-lot, the planting and care of trees upon the farm.

Farmers' Bulletin 232 is devoted to a discussion of the okra—its culture and uses. This is essentially a southern crop, and anyone who has partaken of the southern okra soup will appreciate the interest and value of this bulletin.

NEW ZEALAND. Annual report Department of Agriculture for 1905 This report has the important character and quality of being strictly up-to date. It is published and distributed at the close of the current year. It is a bulky document of 430 pages, nicely illustrated, and covers the entire field of agriculture in its various branches. A glance through this volume shows the wide range of agricultural experiments being conducted in that distant land.

ETHERIZATION AND ACETYLENE LIGHT EXPERIMENTS AT CORNELL.

Several interesting experiments in stimulating plant growth by the use of ether and acetylene light are being conducted by the Horticultural Department of Cornell University. These experiments are being assisted by Brown Brothers and Ellwanger & Barry of Rochester, F. R. Pierson, Tarrytown, N. Y., P. Ouwerkerk and Rolker & Sons, New York, Elizabeth Nursery Co. of New Jersey who have contributed material.

Quiz Column.

CHERRY SLUG.

Please give a remedy for cherry leaf slug.

"SUBSCRIBER."

Answer. The soft snail like insects that infest leaves of cherries and pears, do a lot of damage if they are not promptly destroyed. It is easy to kill them by using arsenites either in liquid or dry form. Paris green, at the rate of one pound to 150 gallons of water, with one pound of lime, sprayed on the cherry or pear trees, will very promptly rid them of this objectionable enemy. Arsenite of soda and arsenate of lead are also efficient.

CONSTRUCTION OF STORING CELLARS.

1. In the construction of frost proof nursery cellars, has any cellar been built, or any experiments been made with the hollow square building tile, now so extensively used in cellar walls and many buildings?
2. If so, with what result, considering efficiency and economy?
3. What is the ruling opinion now, as to whether the bottom of a nursery cellar should be below or at the surface of the ground?
4. Could you give approximate cost for frost-proof cellars of different dimensions and materials?

INQUIRER, Ohio.

Answer. Who will offer experience or suggestion? [ED.] Our notion is that (1) for a small cellar, the square hollow tile might be used. Whether (2) advisable would depend on cost of cement and masonry. The tiles are probably less efficient in regulating temperature than wood or brick with proper insulation (3). It is difficult to improve upon a well drained dirt floor on a level with the ground (4).

Let us have experience upon these points.

Obituary.

DENYS ZIRNGIEBEL.

On November 16 there passed away at Needham, Mass., a noted and interesting figure in gardening circles. For many years Denys Zirngiebel has been associated with the botanical phases of gardening more intimately than most gardeners in this country. He was of Swiss nativity and in early days was associated with Agassiz, the great naturalist. On arriving in this country about 1855, he became connected with the Harvard botanical gardens, where he remained until 1864 when he built up a greenhouse establishment of his own at Needham. His death removes from the New England horticultural and floricultural circles a striking and interesting figure.

TIMOTHY W. WOOD.

At Richmond, Va., on November 12, the senior member of T. W. Wood & Sons, president of the well known implement and seed company, passed away. Mr. Wood was an Englishman, but has been in this country for the last thirty-five years. This firm has occupied an important position in the implement and farm crop seed world for the last ten or fifteen years. The business will be continued by his sons and partner.

Showing our method of storing herbaceous stock by Chase Brothers Company, Rochester, N. Y.

THE ANNUAL OUTPUT OF BARRELS.

It is estimated that 300,000,000 barrels, either tight or slack, are manufactured each year in this country. 9,350,000 of these are used in the cement industry each year. Flour uses about 22,500,000; hardware, 18,000,000; and sugar 15,000,000. Then comes fruit, vegetables and other products for which slack barrels are necessary. These require about 5,000,000. The remainder amounting to 209,500,000 barrels, are used for whiskey, wines and other liquids. The number of these packages are increasing each year.

TRANSPORTATION COMMITTEE WORK.

SOUTHERN CLASSIFICATION.

Chairman W. C. Reed, of the Transportation Committee, met with the committee in charge of southern classification work in Louisville, Kentucky, December 5th. While Mr. Reed has not received official notification of the action of that committee on the requests and representations made in behalf of the American Nurserymen's Association, he feels fairly confident that they will grant the same concessions that have already been granted by the Western Classification Committee. If such is secured it will make a very remarkable record of progress in this line for the year 1905, and will mean the saving of thousands of dollars to the nursery fraternity the country over.

EASTERN CLASSIFICATION.

Messrs. Rouse, Pitkin and others of the Eastern Classification Committee, have been hard at work with railway representatives in New York City and feel confident that important concessions will be secured. These concessions have been promised by the railway committees but have not been formally approved by the executive officials of the railways. As soon as final action is taken an official report will be presented to our readers.

The National Nurseryman Pub. Co.,
Rochester, N. Y.

Nursery trade here is good: spring trade above the average. Much more commercial planting. Elberta Peach is the leader, with some heavy planting in Johnathan, Wine Sop and Gano Apples, and Black, Sweet Cherries.

Provo Nurseries, B.
Provo, Utah.

The National Nurseryman,
Rochester, N. Y.

The past season's trade here was more than satisfactory. We have sold out closer than for several years past in Cherry, Apple, Standard, Dwarf Pear and Quince. We do not think there will be any surplus stock left after next spring's delivery. Before spring, we believe it will be very difficult to purchase many items and we doubt if there are any now in surplus. The retail and catalogue trade expect to have a heavy spring trade. Prices ruled satisfactory. Collections have been good. About all of our surplus stock is in storage and can be shipped early in spring. The outlook for next year's business is good. The planting here will be about the usual amount. We still have a good assortment to select from.

J. M. Kennedy.
Dansville, N. Y.

MUSKRAT CARNIVAL.

Many nurserymen who were fortunate enough to receive invitations to Commodore Greening's muskrat dinner (Monroe, Mich.) on December 29th, report "the time of their lives." The yacht club of which Charley Greening is Commodore is a live one sure enough.

Brenham, Tex., Dec. 26, 1905.

Mr. B. F. Allen,
Chairman Dinner Committee,
Rochester, N. Y.

Dear Sir:—

Permit me to thank you for your cordial invitation to speak at your banquet on Jan. 23rd. It affords me a great deal of pleasure to accept that honor.

In the event that you have a pre-arranged programme and wish to announce the subject upon which each speaker will talk, please put me down for "TEXAS."

Yours truly,
Stanley H. Watson.

SERIOUS LOSS TO THE OREGON NURSERY COMPANY.

PACKING AND STORAGE BUILDINGS DESTROYED BY FIRE—INSURANCE MATTERS—FALL DELIVERY.

"In one of the most spectacular fires in Salem's history the plants of the Salem Canning Company and the Oregon Nursery Company burned last night to the ground," says the *Capital City Journal* of Salem, Ore., in its issue of November 3d. "Despite the most heroic efforts of the fire department, hampered as it was by inadequate equipment, the flames had their way and wiped out of existence two of the city's leading industries. The loss to buildings and stock of the nursery aggregate $20,000, with insurance at $9,000. Losses about equally divided between stock and buildings.

The office was insured for $3,500 and was damaged $700."

Writing to the NATIONAL NURSERYMAN, under date of Dec. 21, Mr. McDonald, president of the company, says: "While we were fortunate enough, to lose only four or five carloads of trees, yet we have since been very much handicapped on account of the loss of all our appliances for doing business. We will, however, have our new buildings completed by the close of this week, and will then be in better shape than ever for taking care of our business.

"The fire that destroyed our plant started in a cannery on a spur of the railway a short distance from us. Had our fire department been properly organized and in shape to have fought the fire successfully, our buildings need not have been destroyed. We were fortunate in saving our office, which is only a few yards distant from the packing houses. All our office supplies, and in fact everything in the office, was hastily removed and scattered over the ground, but we gathered them all together and were ready to resume business the next day.

"We write you fully regarding this as the question of insurance risk on cellars and storage buildings is one nurserymen are interested in, and one that has been talked of a great deal. We are pleased to feel that the fire did not originate on our property, but regretful that our buildings might have been saved had it not been for the poor fire department. Our loss on our buildings, etc., we put between $18,000 and $20,000, and we received from the insurance companies $9,500, so our net loss was about half covered by insurance.

GOOD DELIVERY AND GOOD COLLECTIONS.

"Fall deliveries have reached a stage so we can now estimate very closely about how they are going this year, and for ourselves, we are going to have the best collections we have ever had since we have been in the business, and think same is true of all other nurserymen on the Pacific Coast. The demand for nursery stock is very brisk this year and several lines such as pears, cherries and peaches are now about exhausted, in fact, everything will be very closely sold up by the end of the spring season.

"The weather has been open and favorable for nursery operations during the fall."

EDITOR NATIONAL NURSERYMAN,
Rochester, N. Y.

At two o'clock in the morning of December 15th the barn of Smith Bros., of Concord, Ga., was burned, together with nine mules, two horses, several head of cattle, buggies, harness, stock feed, etc., and 300 bushels peach seed The fire was not discovered until too late to save anything, so all was a total loss, and it was with difficulty that the home of Mr. J. H. Smith was saved from the flames. The loss amounts to about $4,500, with no insurance. The fire is believed to be the work of an incendiary. Rewards for his apprehension are offered as follows: $150 by the Governor of the State, $100 by Smith Bros., and $150 made up by the neighbors of Smith Bros. in Concord. Skilled men are at work on the case, and there is every reason to hope that the guilty party will soon be brought to justice.

Yours truly,
CHAS. T. SMITH.

NATIONAL NURSERYMAN,
Rochester, N. Y.

Gentlemen—We realize there is no better medium to reach the trade than through the NATIONAL NURSERYMAN.

Prospects are good for a heavy trade during the latter winter months through Iowa, as crop conditions were never better.

Thanking you for past courtesies and wishing you a Happy New Year. Yours very respectfully,

J. WRAGG & SON CO.,
Waukee, Iowa.

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MR. STRINGFELLOW'S ORCHARD.

A COURTEOUS REJOINDER.

DEAR MR. EDITOR:

In your December number I note a regretable criticism of Mr. Stringfellow and his horticultural methods. Regretable because it is a local, more than a national, piece of soiled linen and ought to be treated as such.

One important phase of this ugly scrap is the fact that Mr. Stringfellow has no wares for sale and no positions to win or hold and feeling free to make these daring forays in the field of experimentation and discovery it puts him out of harmony with those who have bound themselves to certain orthodox rules and traditional theories.

Mr. Stringfellow, like Mr. Burbank, has put people to thinking and that is something.

Mr. Stringfellow's orchard is a closely mowed Bermuda sod, solid except small circle about the trunk of each tree, which is kept clean with a hoe. So that the mower need not come close enough to injure the trees. This orchard produced the finest peaches and plums that I have ever seen.

The orchard which Mr. Stringfellow planted in the prairie grass without mowing and unfortunately without rain, was only an experiment and was so stated by him. This was a failure but it did not stop Mr. Stringfellow. He will continue his experiments and add new honors to his name.

The art of discussing differences of opinion on economical facts, in terms of civility and in style pleasing and entertaining, is almost a lost art.

If, in our laudable desires to win our neighbors and friends to thinking our way, we could lay aside the argumentative dagger and bludgeon and substitute words in full accord with all the facts and periods replete with logic and conviction suave, our usefulness and our fame would grow.

It appears utterly impossible for mankind to enter into a discussion of an important question without giving offense. If woe is to come to all who give offense then where will we land?

Cultivation or non-cultivation of bearing fruit trees appears to be a question of climate, soil, and other conditions.

In the orchards of California cultivation appears to be indispensable.

In soils subject to frequent washing rains and in soils that compel a system of shallow surface roots it appears best to have a closely mowed sod with copious annual dressings of fertilizers.

We hope the NATIONAL NURSERYMAN will continue its aid in searching for the truth in horticulture.

The National Nut Growers held a record-breaking session in Dallas, Texas, Dec. 7, 8, 9, 1905.

We trust the Nurserymen will do likewise next June.

E. W. KIRKPATRICK.

McKinney, Texas.

[Correspondence for which The National Nurseryman Publishing Co. accepts no responsibility.]

WOULD MISLEAD THE PUBLIC.

This is what Mr. B. E. St. John seeks to do in his article in the November Nurseryman.

I established the "Fairmont Nursery Company" with Mr. St. John in 1901. Previous to that I had my headquarters at Charles City, Iowa, and bought my stock from Mr. C. G. Patten. I had established a good business, the only business the Fairmont Nursery Company ever had. My best field for retail trade was in the vicinity of this city. I sold to Mr. St. John's neighbors, and I also sold to Mr. St. John, at retail and at regular retail prices in 1898.

When we established the Fairmont Nursery Company, he had lined out a handful of trees and shrubs, and one year, planted a few thousand grafts, allowing them to grow up as best they could without care.

The name "Fairmont Nursery Company," notwithstanding Mr. St. John's pretensions, has never been used excepting by the partnership of which I was a member, until after our dissolution, when Mr. St. John tried to use it for about ten days, as the name of an illegal incorporation, which was promptly restrained from proceeding to do business in that name. Said corporation has never done any business and is practically defunct.

I myself furnished the Fairmont Nursery Company with its whole business, and paid in more than half the money it had to do business with from the beginning. Mr. St. John's statement that I put no money into the business must be intended to mean that I put no money into the few scrub trees he had planted theretofore. But the partnership did pay him for every tree he furnished to it. True, I did not own the land on which the partnership planted and cultivated its stock. But neither did he. We rented it, and do yet, although Mr. St. John at one time stated that he owned it, in order to procure some kind of rating, although as a matter of fact he has owned no real estate of buildings in this company since 1897.

McKISSON'S FAIRMONT NURSERIES,
G. D. McKISSON, Proprietor.

WANTED A YOUNG MAN who has had experience in handling agents in retail trade, to take charge of office force. Address,

WANTED,
Care of NATIONAL NURSERYMAN,
Rochester, N. Y.

TREE PROTECTORS

75c. per 100. $5 per 1000

Send for samples and testimonials. Do not wait until rabbits and mice ruin your trees. *Write To-day.*

HART PIONEER NURSERIES

Box 27, FORT SCOTT, KANS.

DO YOU WANT

Apple Seedlings

OR

Japanese Pear Seedlings?

We do not grow MORE than all others. We care WELL for what we do grow. Write us for prices, and if you want to see fine seedling ask for samples.

200,000 2 Year Apples

As fine a block as there is growing in the West.

ALL LEADING SORTS

North Topeka Nurseries,

A. L. BROOKE & CO., Proprietors

North Topeka and Grantville, Kansas

We have to Offer the following Stock Well Graded and up to Our Usual High Standard:

Apple Seedlings, Apple Grafts, Forest Tree Seedlings, including Black and Honey Larsh, Mulberry, Ash, Catalpa, Box Elder and Russian Olive Shade Trees.

Carolina Poplar (fine lot), Box Elder, Maple, Ash, Russian Olive, also Evergreens, Strawberry Plants, Raspberry, Rhubarb and Asparagus. Get our prices.

J. A. GAGE, Beatrice, Neb.

KIEFFER PEAR SEED

Fresh. Now ready. Sample free.
Buy from Headquarters. Order early.

THOMAS MEEHAN & SONS, Inc., Nursery St., Dreshertown, Pa.

I OFFER

large stock of grape vines, *extra* quality. A quantity of *fine* Eldorado and Blowers Blackberry and other varieties. Seventy-five thousand Columbian Raspberry tip plants, Black and Red Raspberries, Louden in surplus.

New Importation of Industry Gooseberries two and three years old. Everything graded to *highest standard.* Send for special quotations. Good assortment of nearly all varieties, including two year old Rhubarb. Can ship any time. Write me for prices.

EUGENE WILLETT,
N. Collins, N. Y.

Plants for Storage

We can furnish for late Fall orders or for Winter storage a splendid assortment of fine plants, well graded, true to name. Our surplus comprises the following:

Raspberries Earhart Ever-bearing, Cumberland, Eureka, Gregg, Kansas, Ohio, Palmer, Columbian, King (new), Shaffer Col., Haymaker, Cardinal, Brilliant, (new), Munger (new), Cuthbert, Golden Queen, Hansell, Loudon, Miller, Marlborough, Turner.

Blackberries Crystal White, Early Harvest, Erie, Eldorado, Kittatinny, Lawton, Maxwell, Minnewaski, Early King, Rathbun, Mersereau, Ancient Briton, Ohmer, Stone's Hardy, Kennover (new), Blowers (new), Ward (new), Snyder, Taylor, Wilson's Early, Wilson Jr., Agawam, Wachusett, Iceberg, Dewberry, Premo, Lucretia, Austin's.

Cuttings North Star, Victoria, Cherry, Fay's, Pomona, Red Ducth, Wilder, Red Cross, London Market, Versailles, Oughton Downing Red Jacket Carolina Poplar California Privet, Orange Quince, Houghton Layers.

Garden Roots Asparagus; Rhubarb, divided roots; Rhubarb, grown from seed, 1 year; Horseradish Sets; Holt's Sage.

A good stock of **Currants, Gooseberries, Wineberries, Juneberries, Strawberry-Raspberry, Buffaloberries, Loganberries, etc., etc.** Price List on application.

W. N. SCARFF New Carlisle, O.

Nursery Stock OF ALL KINDS At Wholesale

Send us a list of your wants for prices. We will save you money

AGENTS WANTED EVERYWHERE.

HART PIONEER NURSERIES.

Box 27 FORT SCOTT, KANS.

1,000,000 PEACH TREES

Smooth, clean, well grown two year old trees budded on seedlings grown from natural seed collected in this vicinity, which is entirely free from "Yellow's" and all disease.

50,000,000 STRAWBERRY PLANTS

And all kinds nursery stock grown on virgin soil at small cost to be sold at closest prices. Send your want list for prices.

Dept. M. **CONTINENTAL PLANT CO., Kittrell, N. C.**

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(of fourteen years standing)

IS THE OFFICIAL PAPER OF THE

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OF EVERY DESCRIPTION,
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Prices and Samples Cheerfully Given.

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JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.

Write direct to us, we have no agents.

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We make a specialty of

SHIPPING TAGS

AND

PAPER TREE LABELS

for Nurserymen.

Write us for samples and prices and be convinced.

THE DENNEY TAG COMPANY

WEST CHESTER, PA.

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WE OFFER THE FOLLOWING **APPLE SEEDLING**

No. 1, 3/16 in. and up, straight.
No. 2, 2 to 3/16, straight.
No. 3, 2/16, nothing under.

Also Grafters. Boxing at cost. Write and get our prices.

GEO. PETERS & CO., Troy, Ohio.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent,

Louisville & Nashville R. R.

LOUISVILLE, KY.

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IN PENNSYLVANIA.

Long established, well known in the trade, at very reasonable terms. Apply to A. G., care NATIONAL NURSERYMAN PUBLISHING Co., Rochester, N. Y.

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APPLES One year 4 to 6 feet and $\frac{5}{8}$ feet Cal. $\frac{5}{8}$ up.
Two year 4 to 6 " " " " " $\frac{3}{4}$ to 1¼.

GRAPES EUROPEAN VARIETIES—Grafted and from Cuttings.

QUINCES One year Orange 3 to 4 feet ⅜ to ½ Cal.
Two " " 4 " 6 " ⅝ " ⅞ "

CAROLINA POPLARS

TEXAS UMBRELLAS 4 to 6 ft. 3 to 4 ft. Special Prices Large Lots.

PECANS, CATALPAS, WALNUTS
Drafted and from Seed.

CHICO NURSERY COMPANY,
CHICO, CALIFORNIA.

OUR TREES ARE FREE FROM DISEASE, AND MAKE A VERY HEAVY GROWTH. OUR YEARLINGS, BEING EQUAL IN SIZE TO MOST TWO YEAR OLDS. SPECIAL PRICES IN CAR LOTS.

About the South

"About the South" is the name of a 64-page illustrated pamphlet issued by the Passenger Department of the

ILLINOIS CENTRAL R. R. CO.

in which important questions are tersely answered in brief articles about

Southern Farm Lands,
Mississippi Valley Cotton Lands,
Truck Farming, Fruit Growing,
Stock Raising, Dairying,
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YAZOO VALLEY
of Mississippi.

Send for a free copy to J. F. Merry, General Emigration Agent I. C. Railroad, Manchester, Iowa.

Information concerning rates and train service to the South via the Illinois Central can be had of agents of connecting lines, or by addressing.

S. G. HATCH, G. P. A., Chicago, Ill.

WILLIS NURSERIES

OTTAWA, KANSAS

OFFERS FOR SPRING OF 1906

Apple, Peach, Pear, Plum, Cherry, Concord Grapes, Blackberries, Raspberries, Hedge, Forest Tree Seedlings, Roses, Apple Seedlings : : : : : : : : :

Stock is Strictly Choice in Every Way We Solicit Your Orders and will make Favorable Prices

A. WILLIS, - - Proprietor

ESTABLISHED 1866—CLOSING OUT 1906.

The undersigned, in consequence of declining years, finds it necessary to close out his stock of Nursery Goods, which consists principally of 2 and 3 year apple stock, first class in every particular, having grown on fresh timber land with the best of care.

The above stock is made up of commercial kinds, 50 to 65 thousand. Would be glad to quote prices on car-lots or less quantity. Shipping facilities of the best, having 5 trunk lines of R. R., beside one electric line. Prices and terms given on application.

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We have a fine stock of cherry largely of Early Richmond ; Montmorency : Baldwin ; Dyehouse ; Wragg ; English Morello ; Ostheim, etc. And standard pear, two year budded on French branched roots, largely of Keiffer ; Koonce ; LeConte ; Garber ; Alamo ; Bartlett and a number of other varieties. These trees are strictly first-class in the different grades. Our cherry or none of our stock being injured in the least by the freeze last spring which injured stock north of us. This stock is offered to the trade at tempting prices.

Address G. H. MILLER & SON,
Rome, Ga.

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WINDLESHAM, SURREY, ENGLAND.

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation. Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

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(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

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APPLE, PEAR, PLUM, PEACH,

Catalpa, Silver Maple, Poplar, Box Alder,

6-8 ft., 8-10 ft. and 10-12 ft.

Black Locust and Catalpa Speciosa Seedlings,

12-18, 18-24 and 24-36 inch.

We have in cellar a general line of nursery stock and will be pleased to quote prices on your list of wants.

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Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted. Can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.

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Fine Specimens. Texas Umbrella Chinas, Select Southwestern Trees, Fruits, etc.

COMMERCIAL NURSERY & ORCHARD CO.

(Formerly Kerr's Nursery) Sherman, Texas.

FRENCH CRAB
QUINCE, PEAR
CHERRY AND PLUM

FRUIT SEEDS

FRUIT STOCKS

APPLE, WESTERN AND PARADISE, MAZZARD AND MAHALEB CHERRY PEAR, QUINCE AND PLUM

The experienced grower knows the importance of ordering his requirements early. If you have not done so, order NOW. You may avert a disappointment. Yes, perhaps actual loss. Send for our Price List.

THOMAS MEEHAN & SONS, INC.

Nursery St., DRESHERTON, PA.

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Southern Nursery Company

WINCHESTER, TENN.

FOR SPRING 1906

100,000 First-Class Peach, $\frac{9}{16}$ and up. Can furnish one-half Elberta if wanted; Salway, Carman, Crawfords Early, Crawfords Late, St. John, Alexander, Greensboro, Stump, Chairs Choice, Mt. Rose, Globe, Triumph.

20,000 Roses (own roots.) Heavy on Gen. Jack, Paul Neyron, Prince ce De Rohan, Marechal Neil, Solfaterre.

California Privet, 1 and 2 years old. Shade and Ornamental Trees.

Write for estimate on your list of wants.

Southern Nursery Company

WINCHESTER, TENN.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

BLACKBERRY ROOT CUTTING PLANTS

Largest and best stock in the country. Our Blackberry plants have the same mass of fibrous roots as our grape vines

One year plants for late fall and spring shipment. Send lists of wants for lowest prices.

T. S. HUBBARD CO., Fredonia, N. Y.

We offer for Spring, Large Stock June Bud Peach and Plum.

We also offer fine lot of Kansas grown 2-year Apple of assorted varieties, about 50,000 at very close prices F. O. B.

50,000 3/16 and up Kansas grown Apple Seedlings.

A nice lot of 1-year Peach and Cherry. Also Southern Mountain natural Peach Seed for shipment from our Nurseries.

We offer nurserymen and the trade inducements. Prices on Strawberry Plants June Buds and 1 year Peach. Write us.

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CHATTANOOGA, TENN

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TREE-BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS
WAUSAU, WIS.

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JOHN FRASER, Prop.

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OFFER FOR IMMEDIATE OR LATER SHIPMENT

CHERRY, 1 and 2 years. PEAR, 1 and 2 years. PLUM, (Japan) 1 year. PEACH, 1 year. MULBERRY, 1 year, large grades. PECAN SEEDLINGS and GRAFTED. PRIVET, 1 and 2 years. CRIMSON RAMBLER, BALT. BELLE, QUEEN OF PRAIRIE and MAD. PLANTIER ROSES, 1 year, own roots.

WRITE FOR PRICE LIST

HARDY Native American Rhododendrons and Azaleas are the best to use. There are a hundred thousand growing in the Highlands Nursery. Large clumps, 2½-6 feet high collected in the Pennsylvania Mountains, at a low rate per car load. Write for surplus list and full particulars, also for unique illustrated catalog of Hardy Native Plants, filled with half-tone engravings. Address,

HARLAN P. KELSEY,

Proprietor of Highlands Nursery, N. C.

Beacon Building, BOSTON, MASS.

EVERGREENS.

If you want small transplanted **Evergreens**, send for my price list. Very best stock, sure to grow, 20 kinds. Very fine White Pine, Sweet Chestnut Seedlings.

C. L. WHITNEY,
Warren, Ohio.

Easterly Nursery Co.,

CLEVELAND, TENN.

Offer for Spring of 1906—

One Year Peach, One and Two Year Apples,
One Year Cherry, Two Year Pecans.

WRITE FOR PRICES.

When writing to Advertisers mention The National Nurseryman.

Choice Nursery Stock

FOR SALE

15,000 APPLE TREES, 5-8 to 3-4, for sale cheap.
100,000 CALIFORNIA PRIVET, from 1 to 3 ft.
10,000 HYDRANGEA PANICULATA, both bush and tree form. Also a large stock of FOREST TREES, WHITE, AUSTRIAN AND SCOTCH PINE OF ALL SIZES. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

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W. C. REED, VINCENNES, IND.

APPLE—Fine lot of Ben Davis and general assortment; 40 varieties all grades.
PEACH—Splendid assortment. Long on Elberta. Grades run largely medium, 3 to 4 and 2 to 3 feet.
PLUM—Japan, New Hybrid and Wild Goose.
CHERRY—1 and 2 years. Fine stock.
SHADE TREES—Ash, Elm, Box Elder and Balm Gilead. Also nice line of Pear, Roses, Shrubs, etc.

Snow Hill Nurseries

OFFER FOR SPRING, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KEIFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moores, Early and Niagara.

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Long Distance Phone: Ironshire, Md. **W. M. Peters' Sons** Telegraph Office: Western Union, Berlin, Md.

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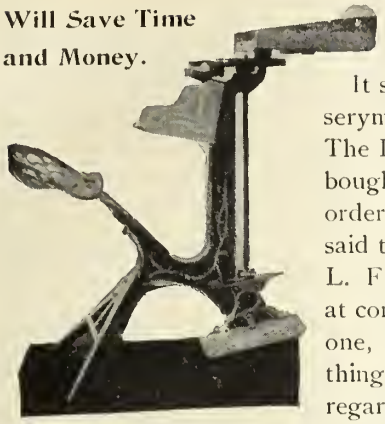
Will Save Time and Money.



Work is Much More Perfect Than by Hand.

It seemed to please all at Nurserymen's Convention in June. The La Salle, Ill. Nursery people bought the sample. Several orders placed and many others said they were sure to order early. L. F. Dintleman, Belleville, Ill., at convention, said he would have one, as it was certainly a good thing, making such perfect unions regardless of speed. Send for circulars and price. Freight paid on orders sent in previous to November 1st.

VIENNA, ILL., July 1, 1905.
DEAR SIR: We want one of the Speer Grafting Machines. Don't remember if we told you we would take one when at the convention. We don't want it before Dec. 1st. Please let us know if we can depend upon getting it.
W. E. GALLENER & SONS.

DES MOINES, IOWA.
D. B. SPEER: Dear Sir: In regard to the Grafting Machine, will state that we sold the one we had with the Nursery, but I was always pleased with its work and will do all in my power to help you sell some of them.
M. J. WRAGG, late of Waukee Ia.

FT. DODGE, IA., Jan. 11, 1905.
D. B. SPEAR: Dear Sir: If your new Grafting Machine is an improvement over your old one it will be a good thing, as we worked the old one for five years, and our man would not do without it.
Yours truly,
W. C. HAVILAND.

E. G. MENDENHALL,

General Agent, United States and Canada

Box 316. KINMUNDY, ILL.

A Southern Location

FOR YOUR HOME, YOUR MANUFACTURING PLANT OR YOUR BUSINESS.

Farms in Virginia, North and South Carolina, Georgia, Alabama, Mississippi, Kentucky and Tennessee.

Nurseries and Fruit Farms Succeed in the South

All conditions are favorable. There are fine Markets, Good Locations, Low Cost of Labor and Splendid Distributing Facilities.

Good Lands at Low Prices.

A HEALTHY CLIMATE, LONG GROWING SEASONS, AND AN ALL-THE-YEAR WORKING SEASON.

The South is now making greater progress than any other Section. If you would learn about its developments, and the opportunities for good locations along the Southern Railway, write for copies of our publications, which will be sent free on request.

M. V. RICHARDS,

LAND AND INDUSTRIAL AGENT,

SOUTHERN RAILWAY, WASHINGTON, D. C.

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F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS.

Have for sale a large and complete assortment of Nursery Stock, strong on

APPLE, CHERRY, PEAR, PLUM, PEACH, APRICOTS, FOREST TREE SEEDLINGS, APPLE SCIONS.

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs.

DREER'S SPECIALTIES

Hardy Perennial Plants

All the standard and leading varieties in immense quantities, of a size and quality to give best results to planters.

Aconites	Asters
Anemone Japonica	Campanulas
Aquilegias	Corcopsis
Delphiniums	Digitalis
Doronicum	Funkias
Gaillardias	Heleniums
Helianthus	Heliopsis
Hemerocalis	Hibiscus
Hollyhocks	Hypericums
Iris Kaempferi	Iris Germanica
Liatris	Lobelias
Lychnis	Monardas
Myosotis	Oenotheras
Poppies	Pæonies
Phlox	Pinks
Primroses	Scabiosa
Statice	Stokesia
Thalictrum	Tritomas
Trollius, etc.	Veronicas, etc.

Ampelopsis	Aristolochias
Clematis Paniculata	Clematis Hybrids
Honeysuckles	Hardy Ivies
Lathyrus	Wisterias

Our New Wholesale Catalogue issued January 1st offers the most complete collection of Hardy Perennial Plants in the country, as well as a full line of Decorative Greenhouse Plants, Bulbs, Seeds and all seasonable stock.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

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Japanese Specialties

Order Now for Fall Delivery.

Direct from our own Nurseries in Yokohama and Tokio, Japan.

NURSERY STOCK,
ORNAMENTAL TREES AND SHRUBS,
TREE AND HERBACEOUS PAEONIES,
IRIS KAEMPFERII, the Latest Varieties,
LILIES, ETC.

Write for Our Trade List.

SPECIAL PRICES FOR LARGE QUANTITIES and Hand Colored Plates for Inspection on Demand.

SUZUKI & IIDA

31 BARCLAY STREET, NEW YORK
21-35 Nakamuramachi, YOKOHAMA

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS. FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE VINES

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

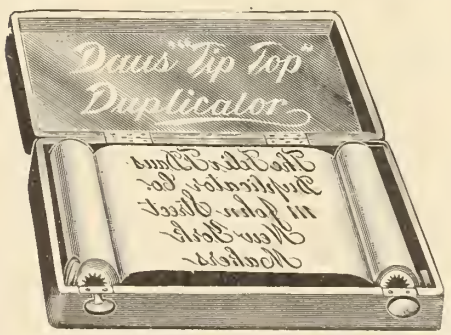
WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

EVER NEED DUPLICATES?



Form Letters, Price Lists, Bills Invoices, Drawings, Menu's, Reports, Anything, then take advantage of our

10 Days' Trial Offer, Without Deposit,

and become one of thousands of satisfied customers who all agree that Daus' Tip Top is the simplest, easiest and quickest method of duplicating on the market.

100 Copies from Pen-written and 50 Copies from Typewritten Original.

If you have tried other duplicators without success, you will be more than pleased with ours.
COMPLETE DUPLICATOR CAP SIZE (Prints 8¾ x 13 in., price **$5.00**

FELIX K. D. DAUS DUPLICATOR CO.,

DAUS BUILDING, 111 JOHN STREET, NEW YORK.

ELMIRE SEBIRE

Fils Aine, at USSY, Calvados, France

Grower and Shipper of NURSERY STOCK
ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.
Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

AUGUST RÖLKER & SONS, 31 Barclay Street, NEW YORK, - P. O. BOX, 752

Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*

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ESTABLISHED 1883.

WHOLESALE NURSERIES
MOREY & SON
DANSVILLE, N. Y.

2-Year Plum in Storage.

Write for prices.

	¾	⅝	½	⅜
Abundance	45	640	496	...
Burbank	1374	270	500	61
Bradshaw	....	842	1230	460
Beauty of Naples	...	20	100	81
Pond's Seedling	...	100	100	40
Climax	24	100	140	95
Coe's Golden	...	....	....	37
German Prune	80	590	564	527
Geuii	390	630	780	254
Grand Duke	...	...	55	34
Imp. Gage	...	....	10	118
Lombard	2407	2112	2235	620
Moore's Arctic	....	21	350	255
Monarch	....	5	67	33
Prunus Simoni	39	20	20	....
Quackenboss	....	25	....	48
Red June	....	60	90	....
Reine Claude	....	....	20	29
Satsuma	51	70	45	36
Shipper's Pride	123	605	975	371
Shrop. Damson	28	73	31	....
Stanton	...	22	40	11
Wickson	79	54	20	.
Yellow Egg	....	....	100	31

Plum—1 Year.

Abundance	....	64	180	...
Burbank	10	310	415	...
Climax	....	...	24	....
Satsuma	....	30	70	....
Shrop. Damson	165	...	....	...
Surprise	....	30	....	....

The Worth Of Experience

you cannot compute, but the cost of its lack is an expensive proposition! We have studied wind, light, and location as allied to plant life, for fifty years, and build our greenhouses based on this study and experience. This 50 years ought to mean something to you! To others it has meant successful growing—minimum of running expenses. Not always what a thing costs, but what it costs to keep down the cost—don't lose sight of that.

Get our Collection of Cuts-H-G.

BURNHAM-HITCHINGS-PIERSON CO.
GREENHOUSE DESIGNERS AND MANUFACTURERS,
1133 BROADWAY, COR. 26th ST., NEW YORK.
BOSTON BRANCH: 819 TREMONT BUILDING.

Apple, Cherry, Peach, Plum and Keiffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded. None better.

Osage, Russian Mulberry and Soft Maple Seedling.

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

Shade Trees

Elm, Soft Maple, Box Elder, Weir's C. L. Maple.
GRAPE VINES, FLOWERING SHRUBS.
APPLE GRAFTS. All styles made to order.

PETERS & SKINNER
CAPITAL NURSERIES
NORTH TOPEKA, KANS.

THE HAWKEYE TREE PROTECTORS

Have Become A Necessity to Every Fruit Grower

They will protect the young trees against rabbits, mice and other vermin at a trifling cost per tree.

They are easily attached and with any care at all will last until the tree requires no further protection.

They are a good thing and it is to the interest of every nurseryman to push these.

We will make you our wholesale price and will ship your orders direct to your customers.

You can sell them at a profit at no expense whatever to you.

We make Veneer wrappers for Strawberry and other plants. WRITE US TO-DAY.

BURLINGTON BASKET CO.
Box 1260. = = = BURLINGTON, IOWA.

SURPLUS

Apples, Japan Plums and Keiffer Pears in extra size, first-class, ⅝ to ¾ and ½ to ⅝ grades.

Conovers, Barr's Mammoth and Palmetto Asparagus, 2 year.

Oriental Plants. Catalpa Speciosa, American Elms, Norway and Silver Maples, Mossy Cup, Pin, English, Red and Scarlet Oaks, Prunus Pissardi, California Privet, Berberis Thunbergii and Spiria Van Houtii.

American Arborbitae and Norway Spruce.

Rakestraw & Pyle
Kennett Square, Pa.

When writing to Advertisers mention The National Nurseryman.

APPLE SEEDLINGS

We have the following left to sell yet.

200,000 No. 1. Straight roots 3-16 and all up.
50,000 No. 1. Branched roots 3-16 to 1-4 inch.
300,000 No. 2. Straight roots 2-16 to 3-16.
200,000 No. 3. A good grade below 2-16.
400,000 Grafters.

All grown on new ground. We are making prices that will get your order if you will write us so we can quote you.

Shawnee Nursery Co.
TOPEKA, KANSAS.

ESTABLISH YOUR NURSERY
OR A BRANCH

Of it in the South. All Southern Nurserymen are prosperous, none of them have ever failed, because they do an immense volume of business and get good profits. Our most successful Nurserymen have come to us from other sections.

Southern land owners, fruit raisers, truck-growers and florists have accumulated hundreds of thousands of dollars. They've saved it. They took it out of the fertile soil of the South, and they are going to replant these savings year after year, for a still larger and more profitable harvest.

In ten years Virginia, the Carolinas, Georgia, Florida and Alabama, will be recognized as the greatest fruit and vegetable sections in America. The Seaboard Air Line illustrated monthly Magazine gives the reasons; you should know them and we will put your name on our complimentary mailing list upon request.

If you want a new location write us.

Seaboard Air Line Railway
J. W. White, G. I. A, Portsmouth, Virginia.

When writing to Advertisers mention The National Nurseryman.

Hemlock Spruce

Several thousand fine bushy plants, 2 to 3 feet.

Weigela Eva Rathke

The finest Weigela; its bright red flowers completely cover the plants when in bloom.
Over 200,000 shrubs of the most popular varieties grown in nursery row; well shaped plants.

Standard Forsythia Suspensa

The best weeping plant, rivals the Weeping Mulberry. Makes a fine show in April when covered with its golden yellow flowers.

Catalpa Bungeii

One and two year heads Large blocks of Pin and Red Oaks grown on gravelly soil, which makes plenty of fibrous roots; best kind for transplanting. Fine Weeping and Shining Leaved Willows, Lombardy Poplars, Weir's Cut Leaved Maple, Prunus Pissardi and a general stock of ornamentals.

Hoopes, Bro. & Thomas
MAPLE AVENUE NURSERIES,
Established 1853. 600 Acres.
West Chester, Pennsylvania.
Philsdelphia Office, 222-3-4-5 Stephea Girard Building.

KNOX NURSERIES.

WE OFFER FOR SPRING, 1906:

Cherry 2 yr. ¾ and up, ½–⅝ and 2-3 ft. Cherry 1 yr. in limited numbers only. Catalpa Speciosa in three sizes. Very fine. These are in storage and can ship at any time. Senator Dunlap Strawberry plants direct from originator. We solicit your patronage and guarantee satisfaction.

H. M. SIMPSON AND SONS,
VINCENNES, INDIANA.

OUR NEW CATALOGUE
Quoting Prices for Fruit Tree Stocks:

30 Varieties of Conifers, 1 to 4 years old,
1200 " " Ornamental Trees and Shrubs, 1 to 3 years old,
1600 " " New and Old Ornamental Trees and Shrubs in all sizes.
250 " " Climbing Plants,
400 " " Conifers 1 to 4 feet high,
400 " " Perennials,
800 " " New and Old Roses,

has been distributed and will be sent free on application.
Write direct to us. We have no agents.

Transon Bros'. and D. Dauvesse's Nurseries.
BARBIER & CO.,
16 ROUTE D'OLIVET, ORLEANS, FRANCE.

When writing to Advertisers mention The National Nurseryman.

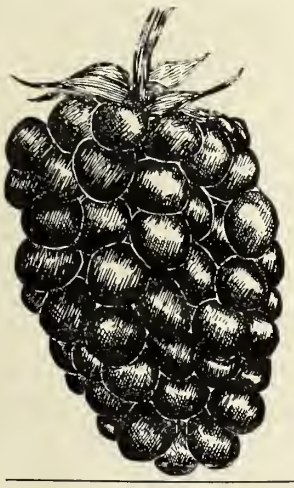
WINFIELD NURSERIES

MAHALEB AND FOREST TREE SEEDLINGS. . .

PEACH, BUDDED APPLE AND FINE SHADE TREES IN CARLOAD LOTS.

FOR SPRING and FALL 1906.

COOPER & MONCRIEF, Proprietors.
WINFIELD, KANSAS.



STRAWBERRY and BLACKBERRY plants of all the new and old sorts in large or small quantity.

PREMO DEWBERRY.

ELDORADO, KRUEGER, MASENA, WARD and BLOWERS BLACKBERRIES.

PEACH TREES—1 yr. and June Buds. We have the finest lot of June budded Peach we ever saw grow, also a general line of other stock.

MYER & SON,
BRIDGEVILLE, DEL.

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.
INDIANA HARBOR, IND.
MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS! POTS!

We are manufacturers of *STANDARD FLOWER POTS* equall to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,
213-223 Pearl Street, NORRISTOWN, PA.

PEACH SEED

Mountain Grown Naturals in any quantity.
Must be sold. Write for prices.

PINNACLE SEED AND NURSERY CO., Rochester, N. Y.

Charles Detriché, Senior

ANGERS, FRANCE.

GROWERS AND EXPORTERS OF FRUIT TREE STOCKS FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc.
Prices on Application.

Jackson & Perkins Co.,
NEWARK, N. Y.
Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,
Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

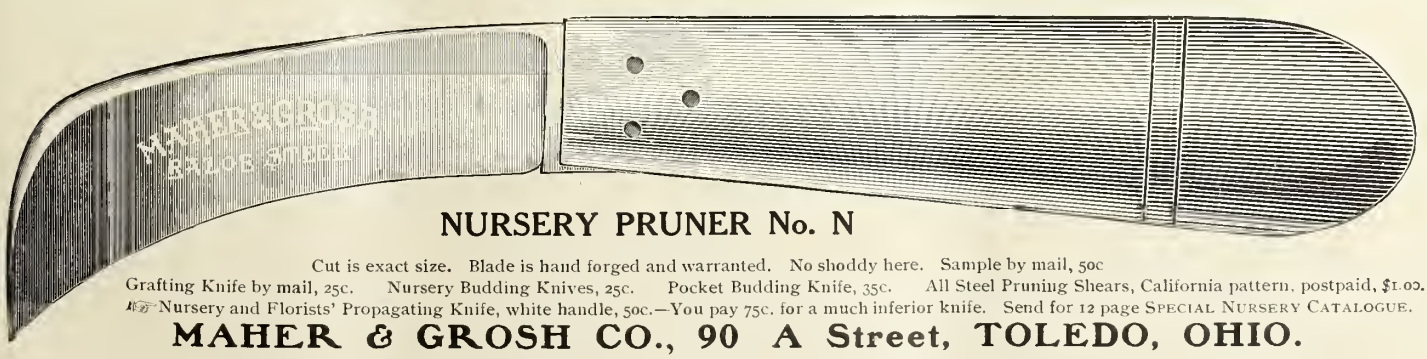
PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

PEACH SEED

We have several hundred bushels of Virginia, North Carolina and Tennessee peach seed, will sell at reduced prices. Also 1,000 bushels of choice mixed peach seed at a sacrifice, on account of removal from our present location. Samples and prices sent on request. P. O. Box 451. Long distance C. & P. Phone, South, 1398. 117 Hanover Street, Baltimore, Md. W. W. WHITTMAN & CO.



NURSERY PRUNER No. N

Cut is exact size. Blade is hand forged and warranted. No shoddy here. Sample by mail, 50c
Grafting Knife by mail, 25c. Nursery Budding Knives, 25c. Pocket Budding Knife, 35c. All Steel Pruning Shears, California pattern, postpaid, $1.00.
☞ Nursery and Florists' Propagating Knife, white handle, 50c.—You pay 75c. for a much inferior knife. Send for 12 page SPECIAL NURSERY CATALOGUE.

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

When writing to Advertisers mention The National Nurseryman.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Spring of 1906, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1904 and Spring of 1905 counted up 270,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, ASSORTED, STANDARD—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

FAIRMOUNT NURSERIES

TROY, OHIO.

CALL ATTENTION TO AN EXTRA FINE LINE OF

Apple, Peach, Standard and Dwarf Pear, Cherry, Plum, Currants, Quince and Grapes, Ornamental Trees, Shrubs and Vines. Also our usual supply of Apple, Pear, Cherry and Plum Seedling.

WRITE US FOR OUR WHOLESALE LIST.

LET US FIGURE WITH YOU ON YOUR WANT LIST.

The Geo. Peters Nursery Co.

WABASH R. R.

offers unexcelled service to the

WEST

FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

The Coe, Converse & Edwards Co.
Fort Atkinson, Wis.

THE cover for a catalogue just completed for an active and enterprising nursery firm. It is presented as a simple and pleasing form, produced at a moderate cost. Compare it with a "tin-can" lithograph ready-made "stock" catalogue cover! The people who buy trees, vines and plants in these days are not ignorant "Rubes," and it is often the first five seconds after a catalogue comes in the mail that decides whether it goes under the desk, or stays on it! This sort of a catalogue insures against the waste-basket.

¶ TURN OVER FOR MORE SEASONABLE CATALOGUE TALK

J. HORACE McFARLAND COMPANY
Mount Pleasant Press
HARRISBURG, PENNSYLVANIA

About the Matter of Competition

¶ WE PRINT CATALOGUES TO SELL TREES, plants and vines, knowing that thus we make customers who stick by us. We aim for a fair profit for ourselves; and, as we have for fifteen years used a system of cost-accounting that tells us exactly and automatically what our work costs us to do, we know how to figure so as to get that fair profit (we want 20 per cent gross), *and no more!* We make no guesswork competition. If some printer has money to lose, we are sorry for him, but his guesswork prices don't bother us at all.

¶ BUT IT IS ONLY FAIR to say that our plant is modern—every machine has its own electric motor—and our situation economic; for we work an open shop, with well-paid people who believe in the Mount Pleasant Press. When you deal with us, you get the benefit of the best conditions. you keep busy the best work-people, and you obtain the best catalogues made in America.

¶ WE DON'T WORRY about work, or worry anyone to give it to us. The principal worry is to get it done fast enough, for we won't put on inexperienced people, or take more work than we can do well. When, once in a while, a customer is tempted away, he always comes back.

¶ HERE IS A CASE: A certain nursery firm had been with us for years, but was won away by the "drummer" of a competing printer. The customer kept asking us for estimates, but the other man always got the orders. (We don't drum.) Just the other day he again requested estimates, and we sent them, but asked him, "What's the use? You want the cheap work, anyway!" In reply — by return mail — came the order, at our estimated price, and these words:

> *"We were fully aware at all times that the work your presses turn out is the best we ever had done, and had it not been for circumstances at the time would not have chosen the very poor work represented in some of our late lists. However, we trust that after this we shall be so situated as to have all our catalogues entrusted to your care, the results of which cannot be otherwise than pleasing."*

¶ ANOTHER OLD FRIEND sends us the reckless quotation of a competitor, just to prove his word, and then cheerfully pays us 64 per cent more — because he knows what our work means for him and his trade. He is not a fool, or a philanthropist; he is a keen business man.

We Can Make Many Nursery Catalogues in February

and in early March, if orders come promptly. To those unacquainted let us say —

(1) We have been specialists in the printing of nursery catalogues for twenty-seven years, during which time we have accumulated both skill and experience, in addition to which

(2) We have a very large collection of engravings, mostly produced by ourselves from our own photographs, the use of which engravings is free to our customers for work we do. But there are more illustrative possibilities, for

(3) We have nearly nine thousand horticultural photographs, made by our own specially trained horticultural photographers, and as different from ordinary work as is our superior printing. From these photographs special engravings are made for our customers on equitable terms, thus giving those who desire it an opportunity to obtain and own their own engravings. There is no other facility like this in America.

(4) We gladly send samples of our work on application, but always prefer to have some knowledge as to what size and sort of a catalogue the inquirer can use. (Send your last catalogue, please.)

(5) We cheerfully make prices when informed as to the inquirer's needs. We like to know what size, how many pages, how many copies, and the sort of trade desired to be won.

(6) We do *not* keep "stock" or "ready-made" catalogues on hand. These stale, ugly and inefficient excuses for catalogues are a harm to all who use them. "Canned" catalogues are about as juicy as canned beef.

(7) We do *not* keep "colored plates" on hand, of the usual tomato-can-label variety, nor make up plate-books. We do produce life-like and beautiful color printing.

(8) We serve now a large proportion of the live nurserymen of the East, and many in the South and West. We are glad to hear from the others, and from those who are becoming alive and who want to share in the best of the tremendous sales of trees, plants and vines that are due in prosperous America. We are not at all anxious to bother with the "dead" ones, especially those who seek only the lowest price—and usually get the lowest value.

J. Horace McFarland Co., Mt. Pleasant Press, Harrisburg, Pa.

ESTABLISHED 1875

Mount Arbor Nurseries

E. S. WELCH, Proprietor

130 Center St., Shenandoah, Iowa.

One of the Largest, Best Equipped and most up-to-date Nursery Plants in the United States.

LARGE SUPPLY FOR SPRING 1906

APPLE and CRAB
Over 100 varieties, all grades.

PLUM AMERICANA on NATIVE ROOTS
Largest stock in United States.

PLUM EUROPEAN and JAPANESE
Smooth well grown trees.

CHERRY TWO YEAR
All of the leading sour and sweet varieties in prime condition.

ROSES and ORNAMENTALS
The leading popular kinds.

FOREST TREE SEEDLINGS
Catalpa, Locust, Maple, Elm, Ash, etc.

APPLE SEEDLINGS, LARGE SURPLUS
Grown on new land, free from disease.

APPLE GRAFTS
Any style made to order. Put up from best material and by competent workmen.

Shipments made from storage at any time.

Pleased to price your wants.

Special inducements on car lots

Ask for **Winter Wholesale List,** now ready.

Bridgeport Nurseries

ALBERTSON & HOBBS

BRIDGEPORT, INDIANA

The largest and most complete in the state and one of the largest and best equipped in the country.

FOR SPRING OF 1906

PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY FEB. 1st.

Our cellars are WELL FILLED and SHIPMENTS can be made ANY DAY. Order early and have goods set aside for you.

WANT LISTS PRICED PROMPTLY

P. OUWERKERK

1123 SUMMIT AVENUE, JERSEY CITY, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Paeoneas, Magnolias, Box Trees, Fancy Conifers, Hydrangeas and Shrubs, our specialties at our HOLLAND NURSERIES. Some of the goods on hand here during the packing season.

TWO HUNDRED ACRES FIELD GROWN ROSES

Own Root—Leading Varieties

SHRUBS, JAPANESE IRIS, PAEONIES

In Thousands or Car Lots

The United States Nursery Co.

RICH, MISS.

VERMONT APPLE SEED

TWENTY BUSHELS FOR SALE BY

A. E. Windsor,

HAVANA, ILL.

LOMBARDY POPLARS.

3, 4, 5, 6, 15 and 20 feet.

CAROLINA POPLARS, 10 and 14 feet, PEACH TREES, Small lot, 1st and 2nd, CAL. PRIVET most all sold, 1 and 2 yr., SHRUBBERY, variegated Leaf Althea, Forsythia, etc. Some good Hemlock Spruce can be moved with ball, 2, 3 and 5 feet.

JOSIAH A. ROBERTS, Malvern, Pa.

Lenault, Huet & Colombe

. . NURSERYMEN . .

USSY, CALVADOS, FRANCE.

GROWERS AND EXPORTERS OF FRENCH NURSERY STOCK

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

CATALOGUE FREE.

When writing to Advertisers mention The National Nurseryman.

If You Want the Finest

European and Japan Plums

in Dansville, both 1 and 2 yrs., also
1 yr. Cherry and Keiffer Pear, write

JAMES M. KENNEDY, Dansville, N. Y.

When writing to Advertisers mention The National Nurseryman.

Budding gang of Mount Arbor Nurseries "on Dress Parade," with views in nursery grounds above. At the right above is a fine block of native plum stocks.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., FEBRUARY, 1906. No. 2.

MOUNT ARBOR NURSERIES, SHENANDOAH, IOWA.

SITUATED ON STRONG IOWA SOIL.

[Written and Illustrated by our Special Correspondent.]

OFFICE.

Page County has long been recognized as one of the leading fruit producing counties of the first agricultural state in the Union—Iowa. Its reputation is due largely to the character of the soil which prevails in the county. There are two leading types of soil in Iowa, both admirably adapted to the growing of agricultural crops, but not equally well adapted to the growing of tree fruits. These soils may be roughly classified as the prairie drift soils, and the loess soils. The latter type prevails in the region under discussion, and geologists have characterized the soil of that region as the Mississippi loess. It is the bluff soil found so frequently in the rolling lands adjacent to the Missouri. The prairie soil is of the characteristic fine black loam; while this latter type is made up of equally fine particles, but having more sand and mineral in its composition. It is on soil of this type that the most successful orchards in the Hawkeye state are grown. It is in this region, too, that some of the great nurseries of the state are located.

THE ESTABLISHMENT OF THE NURSERY.

The Mount Arbor Nurseries were established in 1875, by T. E. B. Mason. They came into the hands of the present proprietor, Mr. E. S. Welch, in the spring of 1891. Mr. Welch has the distinct advantage among nurserymen of having grown up in contact with the practical side of nursery work. He is, therefore, thoroughly familiar with it in all its phases, and has a thorough acquaintance with the growing end. Associated with him is his brother, F. W. Welch, who acts in the important capacity of general field foreman and superintendent.

Mr. Welch began the business with the idea of propagating and carrying a full line of fruits and ornamentals for retail handlers and growers. In the course of the development of the business, certain features have become more or less prominent. One of these is the growing of Apple Seedlings and furnishing Grafts to the trade, which is made a specialty of during the winter season. More recently Native Plum Seedlings have occupied a prominent place. The Native Plum is, par excellence, the plum for the great empire of the Mississippi valley. It is the best Plum Stock, also, for all varieties of the northern native plum. For this reason there is a special point in growing this crop.

GROWTH OF THE BUSINESS.

Of course, every successful business in the country has developed wonderfully in the last ten years. The past decade has been a marvelous era of expansion. When this development has been of a healthy, substantial character, and has been founded upon square dealings, thrift, and industry, it should be a matter of honest pride. Such is the case in this instance. From a small beginning, the business has developed until the firm occupies a very important place in the nurseries of the middle west. As an illustration, the plant of *apple grafts* last spring amounted to something over one million. About the same number of stone fruit stocks were set out. Large blocks of Ornamentals, Evergreens, Roses, etc., were planted.

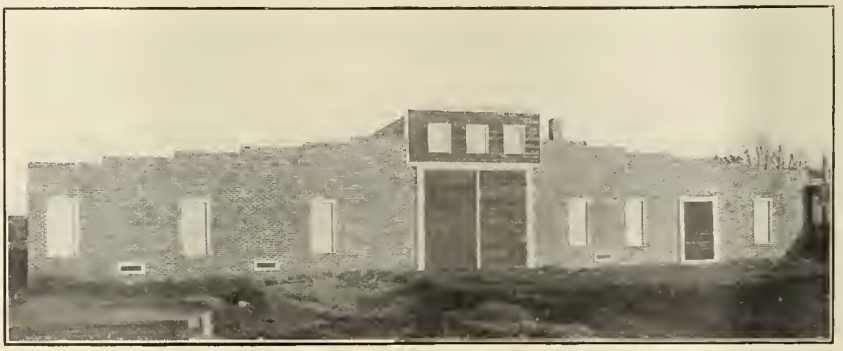
RECENT DEVELOPMENT.

On January 1st, 1906, an important change took place,

Residence of E. S. Welch, proprietor of the Mt. Arbor Nurseries.

Storage building number 2, 62 x 110 ft., basement used for storage, upper story for grafting and counting room, making boxes, etc.

which materially enlarges the scope of the business. This change was in the nature of an enlargement made by the purchase of a half interest in the Plumfield Nurseries at Fremont, Neb., owned by Mr. J. H. Yager and Mr. G. L. Welch, brother of Mr. E. S. Welch, of the Mount Arbor Nurseries. Mr. G. L. Welch, brother of the senior member of the Mount Arbor Nurseries, will remain as manager of the Nebraska branch, and the business will be operated in connection and co-operation with the Iowa concern, under the name of Plumfield Nurseries, G. L. Welch & Co., proprietors.



Brick addition to main storage for grading and packing—56 x 102 feet.

We are glad to be able to state, from personal knowledge, that the manager of the Nebraska branch is a man of practical experience, active, and in every way thoroughly expert grower and handler of nursery stock. There is no reason, then, why the Nebraska branch should not grow in importance and strength as time goes on. It is well located in the northeastern part of the state, in a region where the soil is rich and productive, and where farming interests are in a stable and prosperous condition. The purchase of this plant will add about 400,000 apple trees of various grades; 50,000 plum, 20,000 cherry; in addition to some 200,000 dormant buds set during the autumn of 1905. There is also a large assortment of ornamental trees and shrubs, both deciduous and evergreen. This firm has also made a business of growing forest tree seedlings, and that line will be continued. In the way of packing and storing facilities, there is an excellent frostproof storage house, 40 x 80 feet, and to this will be added a packing shed of equal dimensions, to be ready for spring's use. The equipment, then, for handling the business is satisfactory, and with the well-known energy characteristic of the members of the two firms, success of the solid and substantial order seems to be assured. The extension of the business will add to the facilities for carrying on a more extensive wholesale business than has been possible in the past.

PUSHING ORNAMENTALS.

One of the cheering signs, cheering because it illustrates an interest in the foundation part of our civilization, namely, the home, is the growing of *ornamentals*. When the Mount Arbor Nurseries were established, ornamentals were cultivated as something of a side line. Now the propagation of hardy shrubs, evergreens and ornamental trees adapted to the conditions of the great region tributary to the nursery, is a very important branch of the firm's business. While the development of this feature has been somewhat in response to outside demand, yet the proprietors have not been unmindful of the desirability of catering to the æsthetic needs of the settler in the prairie regions of the middle West.

Iowa is not strictly in the peach belt, yet in certain regions towards the south line, good peach crops are frequently harvested, and special varieties of particular ability in resisting frosts are being developed. In these fruits the aim of the Mount Arbor Nurseries has been to grow varieties especially adapted to the great middle west region.

IN FRUIT TREES ESPECIALLY STRONG.

Among the crops which stand out this year as being notably vigorous and of markedly good quality, are apples and plums. The stand of such varieties as Jonathan,

Two year cut back apple. Photo showing size of trees.

Block of two year Americana plum on native roots.

Birds eye view of 140 acre nursery farm of Mt. Arbor Nurseries, Shenandoah, Iowa.

Northwestern Greening, Ben Davis and Duchess, are as fine as your correspondent has ever observed. Not only is there clean and healthy growth, but the trees are wonderfully uniform, showing the fine qualities of the soil on which they were grown. Great blocks of these trees were taken up last fall and cellared, and will be ready for the planter or dealer this spring.

FOREST TREE SEEDLINGS AND DECIDUOUS TREES.

Much interest is being taken in the question of Forestry by the United States government and various associations. The Mount Arbor Nurseries are catering to the demand thus created for this class of stock, by growing large quantities of both seedlings and trees adapted to this purpose, such as Ash, Box Elder, Catalpa speciosa, American White Elm, Black and Honey Locust, Silver Leaved Maple, Russian Mulberry, Russian Olive, Osage Orange, Black Walnut, etc.

E. S. WELCH.

The Mount Arbor Nurseries cater especially to the wholesale trade, and when one sees varieties grown by the thousands, one is impressed with the idea that a wholesale trade of a very comprehensive character must be interested, otherwise much of the stock would be left upon the grower's hands.

SEASON AND CLIMATE.

The rainfall of the region is much more uniform year after year than that of many other sections farther north and west. It ranges from 45 to 55 inches. Killing frosts rarely come before October 1st, and the ground, as a rule, does not seal up for the winter before December 1st. The autumn days in this region are peculiarly beautiful, and especially favorable for the handling of nursery stock. The clear, dry air hastens the ripening of stock, so that "stripping" is less resorted to than in many other regions.

In spring, field operations begin as early as the 10th of March, and with such fine storage facilities as are provided at this nursery, the work of handling and stripping stock may be continued late into May to accommodate northern planters.

STORAGE EQUIPMENT AND RAILWAY FACILITIES.

One of the strong and striking features of this establishment is its excellent store and packing house facilities. Two buildings, one 102 x 116 feet, with a wing 56 x 102 feet, another 62 x 110 feet, are used exclusively for storing and grading stock in winter, and packing during the shipping season. One of the best graft storage houses we have seen is a substantial structure entirely above ground, 32 x 38 feet in which excellent provisions for the carrying of grafted stock are provided. Very rarely is any of the insidious "graft box fungus" found in a storage house of this kind. The building, 62 x 110 feet, is two stories in height. The regular tree storage is available below, while an upper floor, 62 x 110 feet, is devoted to grafting and grading and other necessary work. Having abundance of room, the foremen can insist upon careful work being performed by their assistants. The storage buildings are illuminated by electric light throughout, and are supplied

Side view of block two-year cut back Gano apple of Mount Arbor Nurseries.

Forty Acre block of two-year cut back apple of Mt. Arbor Nurseries. Grafts planted three years, cut back to the ground the first year; result from this method is a tree unsurpassed in quality heavily rooted, with a smooth body and of good height.

with city water. Close to the storage and packing houses are the owner's residence and the office of the firm. Mr. Welch is the fortunate owner of a large acreage of valuable land adjoining the city limits of Shenandoah, a thriving city of 5,000 inhabitants. This land is admirably adapted for the successful growth of hardy nursery stock and conveniently located from their headquarters. In this way the entire establishment is closely connected and thoroughly equipped in every respect for handling a large and growing business. Also, the executive work can be carried on with a minimum of labor.

Thirty acre block of two-year apple grafts planted 3 years, cut back at close of first year's growth.

The firm is happily located as to railway facilities. Three railroads enter Shenandoah, and afford convenient shipping facilities. These are the Burlington, the Keokuk and Western, and Wabash railways. The Wabash furnishes a special side track for the firm, and at the same time places them on the main line from St. Louis to Omaha. Shenandoah is only 50 miles, via Wabash, from Omaha and Council Bluffs, where direct connections are made with eight leading trunk lines and their various branches. Cars are loaded directly from the storage house, and therefore with a minimum of labor and wear and tear on stock. An immediate adjunct of the establishment is the fumigation house, which is not only there for appearance and moral effect, but for actual use. Altogether, one must regard this firm, although among the juniors as to age, as one of the aggressive and thriving nursery institutions of the great middle west.

Main Storage Building 102 x 126 feet.

ASSOCIATION MATTERS.

INCREASE MEMBERSHIP, ENLARGE SCOPE OF ASSOCIATION, SAYS PRESIDENT ALBERTSON.

Probably very few members of the Association, and perhaps none who are outside of the organization, realize the far-reaching benefits which will come to wholesale and retail shippers through the freight-rate concessions secured by the efforts of the Transportation Committee. For instance, a saving on a 36-inch car, West and South, is 4,000 pounds which, at 30 cents per hundred, means $12.00. On a 50-foot car a saving of 10,000 pounds is effected. In a recent instance where two cars of nursery supplies were shipped from a Mississippi river point to Salt Lake City, a saving of $70.00 on each car was effected.

These things, and many others of a similar nature, will be set forth in a circular letter now being prepared by Mr. Albertson and the chairman of the Transportation Committee. This letter will be mailed to all nurserymen, and it is hoped that by setting before the non-members in clear and forcible terms, the advantage of membership in the Association, that the membership roll will be largely increased. Mr. Albertson has set his finger on a thousand mark as an ideal to be reached this year, and he will bend all efforts towards the accomplishment of that purpose.

From this time forth a campaign of publicity will be instituted. So far as possible, committees of the Association will meet with State Horticultural Societies and other similar organizations for a purpose of co-organizing the efforts of a tree grower as well as a fruit grower.

The warm weather of January has given the fruit buds in many parts of the country a narrow squeak, but it is hoped that they have escaped serious injury.

Correspondence.

A SUGGESTION FROM IOWA.

EDITOR NATIONAL NURSERYMAN:

Sir:—Enclosed find draft for renewal for another year, and good luck before 1907. Those who pay one dollar for their Seedless Apple tree, would better buy your paper!

HENRY SCHROEDER.

Sigourney, Ia.

IN VIRGINIA.

The trade in this section has been very good. Stock made an average growth, and the demand for spring is above the average.

The only trouble with us this year were delays caused by the railroad company. We expect to increase our plant next spring.

We are snowed under now, and will have to wait until it moderates before we can finish our deliveries.

E. W. JONES NURSERY CO.

Woodlawn, Va.

THE ABUSES OF THE PRESENT STATE LAWS IN REGARD TO THE SAN JOSÉ SCALE.

A good many years ago, when the San José scale was discovered and its ravages noted, every nurseryman and fruit grower desired to be protected from infestation, and this called forth the existing laws, intended to prevent the spread of this pest. But experience has now sufficiently shown that its spread cannot be prevented and that the scale has now extended all over the United States. There is hardly a nursery or orchard which is not infested to a certain degree, and such few as are yet exempt from the pest will certainly have it sooner or later.

The nurseryman may be ever so careful in fumigating, and in not sending out any infested tree, but any sensible man can readily understand why a tree so slightly infested that the scale can hardly be detected with the naked eye, may not be shipped. If such tree falls into the hands of an inspector, and he examines the same with his microscope and discovers one or two small scales, he condemns it; he throws a tree, which required years of care and labor to grow, on the brush pile like a burnt match. It is not only lost to the shipper, but also to his customer, when with very little trouble such scale could be removed. It is not right—it is unjust. Yet the laws, as they are, allow it. It will be readily seen that a modification of the laws is necessary; as, for instance, "Trees slightly infested with dead scales must not be condemned." Protection from infections is thereby not diminished, as dead scales do not spread.

All State Nurseryman Associations ought to take up this question, and decide on the best methods of protecting themselves from the abuses of the present laws.

ANTI-RADICAL.

NEW ENGLAND HAPPENINGS.

OVER-PRODUCTION OF SHRUBS.

EDITOR NATIONAL NURSERYMAN:

I am, indeed, a poor correspondent, and I am afraid the elasticity of my pen is of a negative character.

The autumn trade with the New England nurserymen was considerably above the average, ornamental shrubs being the leaders in wholesale dealings, though herbaceous plants were a strong second. Apparently, the propagation of these two classes will continue to be the special field of the nurserymen of eastern Massachusetts, at least. There is a strong feeling of over-production in some lines of shrubs, and probably Spiraea van Houtteii, Hydrangea paniculata (type) Deutzia, Symphoricarpus, Lonicera Morrowii, Viburnum dentatum and Photinia villosa will be grown in lesser quantities in the future. On the other hand, there continues a shortage in Forsythia Fortuneii, Golden Currant, Ligustrum Ibotii and L. Regelianum, Thunberg's Spiraea, Spiraea prunifolia fl, pl, and many of the choicer species of Viburnums.

It seems impossible to overstock on Berberis Thunbergii and Rosa rugosa, though there are blocks of hundred thousands on hand. Hawthorns of the native species are attracting large sales, with prospect for continued demand.

All the leading perennials seem in active demand, but there is an evident atmosphere of unrest in Paeonies and an indication of a break in the high prices demanded of late in this class.

BROWN TAIL MOTH A FACTOR.

Eastern New England is bound to become a fresh center for fruit trade, owing to the large destruction of fruit orchards by owners, due to the depredations of the Gypsy and Brown Tail Moths, of which the Brown Tail is the more serious pest, rendering the cleaning of the large and old orchard trees too expensive to admit of their maintenance. Perhaps this is, on the whole, something of a blessing, as I believe it to be a notorious fact that the average New England orchard is more neglected from all standpoints of trimming, fertilizing and cultivating than is the case in any other section of the country; and if the moth trouble leads, as it evidently will, to the sweeping away of these orchards and the planting of new stock, with its attendant care, and in some cases improved varieties; if this proves true, then the old adage of the "ill wind that blows nobody good" will again be illustrated.

Spraying is a perfectly successful means of combatting the trouble, if employed.

LECTURE BY DR. HOWARD.

A very interesting lecture was given before the Massachusetts Horticulture Society on January 6th, on "The Possibilities from Insect Parasites," by Dr. L. O. Howard, of the Bureau of Entomology, Washington, D. C., wherein was described the work being done on this line. As special agent for the Department, Professor A. H. Kirkland has been superintendent for suppressing the Gypsy and Brown Tail moths. Dr.

Howard traveled throughout Europe this summer for the purpose of obtaining parasitic enemies to these pests; he has apparently found some very promising material, and every effort is being made by the commonwealth of Massachusetts, through Professor Kirkland and his agents, to overcome this most serious trouble. The popular fallacy that by introducing parasites to insect pests, we are, perhaps, introducing a greater evil than the pest itself, was thoroughly exploded by Dr. Howard in his lecture, as he showed conclusively that their habits and existence were dependent on the single object of feeding on the pests, and that the abundance of the parasite was in strict ratio to the abundance of the pest itself. On the other hand he called attention to the care necessary in this work of the Economic Entomologist, that he should not import as well secondary parasites which in turn feed on the beneficial parasites themselves.

OUTLOOK PROMISING.

Spring trade seems promising, but cannot be accurately gauged in advance by our eastern nurserymen, who do not depend so much on agent business as do those with whom this is a specialty. Landscape undertakings are numerous, but in a less degree than one or two seasons back; but what the nurseryman loses through the lack of trade, if any, with the landscape architect, he is quite likely to gain through direct dealings with the owner; so that, on the whole, there seems to be no cause for other than a good expectant trade.

Yours very truly,
J. Woodward Manning.

NURSERIES IN LOUISIANA.

Editor National Nurseryman:

I am now able to comply with your request regarding the extent of the nursery business in Louisiana. Having completed our first season of nursery inspection in this state, I enclose herewith a statement of the amount of stock grown.

There are, all told, twenty-seven nurseries in the state that have received certificates. Certificate was withheld from one nursery.

Wilmon Newell,
Shreveport, La. *Secretary, Crop Pest Commission.*

The compilation of figures made by the Commission, in connection with the inspection work, shows that the nurseries of Louisiana produced during the season 683,550 marketable trees and shrubs, as follows:

Peach	248,172	*Forest and shade trees	5,911
Apple	138,000	Fig	3,300
Pecan	93,663	Privet	1,000
Strawberry plants	50,000	°Citrus trifoliata	350
Pear	42,000	†Ferns	350
*Field-grown rose bushes	26,300	†Camellias	175
Plum	16,619	Magnolias	162
Orange	15,600	Arbor vitæ	100
Grapes	8,000	†Palms	50
		Miscellaneous	33,800

*Includes only field-grown bushes for sale as such, and does not include roses grown in greenhouses or by florists.
*Does not include catalpas propagated on catalpa plantations.
°Does not include trifoliata stocks held by nurserymen for budding.
†Does not include plants of these sorts grown in greenhouses and by florists.

FRUIT HANDLERS MEET.

WESTERN FRUIT JOBBERS MEET IN DES MOINES—NATIONAL LEAGUE OF COMMISSION MERCHANTS IN MILWAUKEE.

The Western Fruit Jobbers Association met in the Savory House, Des Moines, Iowa, on December 27th. It transpired, from the secretary's report, that this association has spent between $5,000 and $6,000 in its fight before the Interstate Commerce Commission. This amount was raised by popular subscription, and was over and above the regular dues and assessments. It looks as though the fruit jobbers were a wide-awake, progressive lot of men of somewhat optimistic and generous dispositions. President, E. M. Ferguson, Duluth; Treasurer, A. N. Chaney, Des Moines; Secretary, A. B. Branch, Omaha.

PENNSYLVANIA FRUIT GROWERS.

The annual meeting of the Pennsylvania State Horticultural Association took place at Gettysburg, January 16-17. Papers and addresses were offered by members of the State Agricultural College and the State Department of Agriculture. The president of the society is Gabriel Heister, Harrisburg, Pa.; secretary, E. B. Engle, Martinsburg.

NATIONAL LEAGUE OF COMMISSION MERCHANTS.

The National League of Commission Merchants met in Milwaukee January 10-13. The meeting was most successful in every way. The attendance was large, and papers spicy and pointed. Among the speakers were Louis Erb, of Memphis, Tenn.; A. Warren Patch, Boston, Mass.; D. W. Longfellow, Minneapolis, Minn.; J. S. Crutchfield, of Pittsburgh, Pa.; M. L. Campbell, Chicago, Ill., and many others. Mr. R. A. Durkee, chairman of the legislative committee, proposed a bill to regulate fruit packages. This was referred to a committee for later report. A resolution was passed authorizing the contribution of $10 from each member for the purpose of carrying on a general campaign of education in behalf of fruit shippers.

One of the important features of the convention was the report of J. C. Scales, chairman of the Car Lines Committee of the National League of Commission Merchants.

Mr. Scales considered the transportation question very carefully from the standpoint of the independent and corporate car lines, and in the light of the rights of individuals and organizations. He closed his report by presenting the following resolution, which was unanimously adopted:

Mr. President and Gentlemen: In order to place on record this great convention representing every section of our country, I most respectfully present for consideration of the convention the following resolution:

"Whereas, The National League of Commission Merchants of the United States, in convention assembled at Milwaukee, Wis., this 10th day of January 1906, desires to put itself upon record as favoring and most emphatically urging such legislation as will put a stop to the extortion practiced by independent car lines in the icing of refrigerator cars; therefore, be it

"Resolved. That this National League appeals to the Congress to have drafted into whatever rate bill may ultimately meet its approval, a clause in some proper manner and form which shall compel the carriers to separate the icing charges from the transportation rate and compelling them to set forth upon their freight bills the quantity of ice furnished at the several icing points with cost per ton."

NEW YORK STATE FRUIT GROWERS MEET AT LOCKPORT.

SUCCESSFUL MEETING.

The attendance at this meeting was the best in the history of the Association. The enthusiasm and interest evinced were of the most satisfactory order, and were fully justified by the quality of the addresses. The principal speakers were J. H. Hale, of Connecticut and Georgia; L. A. Goodman, president of the American Pomological Society, Kansas City; M. B. Waite, pathologist in charge of orchard diseases, Department of Agriculture, Washington; and John Craig, professor of horticulture, Cornell University.

Mr. Waite's address dealt with pear blight in its various aspects. An interesting point developed is that the disease is practically a new one on the Pacific coast, and that it now threatens the extinction of the pear industry in that region. Growers are co-operating with the pathologists in their efforts to stamp out the disease. Mr. Waite recommended a careful examination of the trees in winter time, and the cutting out of all diseased patches, spurs, tips, and the like. In this critical type of examination and elimination of all infected wood, lay the only hope of the orchardist in retarding the progress of the enemy.

Mr. Goodman's address dealt with commercial orcharding, with special references to the apple growing in Missouri and the Ozarks. He emphasized the necessity of training to low heads, doing little or no pruning, feeding liberally and spraying every year. His address was much appreciated and contained a great deal of valuable and suggestive material.

Professor Craig's address was an illustrated one, and aimed to bring out the salient and striking features in the orcharding of the Ozarks. The geology and topography of the country were described, the stony and shaly character of the soil were mentioned, the fact that the trees were usually planted at distances varying from twenty to thirty feet apart, instead of thirty to forty, as in this country; were headed low, pruned but little, came into bearing young, and took on the appearance of old age comparatively early, were the striking characteristics of trees and orcharding in that region. The speaker laid special stress upon the types of apples that had been originated in that section, and was of the opinon that they belong to the region, and would therefore reach their highest excellence in that locality. As Baldwin and Spy were unsuccessful there, it was not at all unlikely,—in fact, experience has proven it,—that the apples of that region would be equally unsuccessful in the East.

RESOLUTIONS.

The committee on resolutions developed a large crop of these. In fact, if all the bodies, administrative and otherwise, touched by the resolutions, were to immediately act a tremendous step towards the commercial millennium would at once be taken. President Roosevelt's policy in regard to the transportation and trust organizations was commended, the various factors making for agricultural education in New York were commended, among these the Bureau of Farmers' Institutes, the Agricultural Commissioner's office, the New York Experiment Station, and the Cornell College of Agriculture. Co-operation in the selling of apples was also strongly commended, and the carrying out of the project placed in the hands of the executive committee for further development.

On the matter of fruit inspection, the following resolution was offered by Professor Craig, of Cornell University, and approved by the Society:

TO PROVIDE FOR THE INSPECTION OF EXPORT APPLES.

Whereas, there are no thoroughly established and generally recognized grades of apples in the commerce of this country, and

Whereas, there is great lack of uniformity in the manner of specifying grades, and greater lack in the packing of the fruit itself by the shipper, and

Whereas, this condition of things is militating seriously against the export of apples from the United States to Europe and other foreign countries, be it therefore

Resolved, that this association places itself on record as favoring the passage of a Federal enactment which shall adequately define the various grades of apples and provide a suitable mark to characterize each. Be it further

Resolved, that this association favors such congressional enactment as will provide the facilities whereby any exporter or packer may, if he desires, have his apples inspected and marked with the official governmental brand before shipping.

HALE FOR TILLAGE.

Mr. Hale's experiences for 1905 were mighty instructive, and impressed upon him more than ever the necessity of feeding peaches, of using cover crops, of tilling the ground, and of thinning the fruit. His crop in Georgia was unmarketable on account of continuous rains, but the Connecticut harvest was abundant and profitable. Hale took a crack at the western New York peach basket, which he has no use for.

GREENHOUSE CONSTRUCTION.

The King Construction Company, of Toronto, Ont., and North Tonawanda, N. Y., making a speciality of greenhouse construction and equipment is finding a large demand for their particular style of greenhouse construction. Houses are supplied in all widths from 10 ft., to 60 ft. This firm treats greenhouse building as an engineering proposition and have applied the principle of truss work, which is so commonly used in bridges and large buildings, to the construction of greenhouses. In this way they are able to eliminate in some cases all of the posts usually seen in greenhouses. On account of the economy in material obtained by using the truss construction the expense of building iron frame greenhouses has been very much reduced, and they can now be obtained for about the same price as formerly paid for wood houses. The King Construction Company report a very large increase in their business and they have more than doubled their plant both on the American and Canadian side of the line in order to keep up with the demand.

NATIONAL NURSERYMAN, Rochester, N. Y.,

Dear Sirs: We enclose you Draft for $1.00 for the NATIONAL NURSERYMAN; it's a great Paper and we don't feel as though we could do without it.

Sedgwick, Kansas. THE SEDGWICK NURSERY.

The National Nurseryman

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VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., FEBRUARY, 1906.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, E. Albertson, Bridgeport, Ind.; vice-president, Orlando Harrison, Berlin, Md.; secretary, Geo. C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

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Legislation—C. L. Watrous, Des Moines, Ia.; W. T. Hood, Richmond, Va.; N W. Hale, Knoxville, Tenn.; R. C. Berckmans, Augusta, Ga.; William Pitkin, Rochester, N. Y.

Programme—John S. Kerr, Sherman, Tex.; H. S. Chase, Huntsville, Ala.; C. J. Brown, Rochester, N. Y.

Publicity—Ralph T. Olcott, Rochester, N. Y.; John C. Chase, Derry, N. H.; Stanley H. Watson, Houston, Tex.

Exhibits—J. H. Skinner, Topeka, Kas.; J. C. Hale, Winchester, Tenn.; C. C. Mayhew, Sherman, Tex.

Editing Report—J. Horace McFarland, Harrisburg, Pa.; J. C. Maloy, Rochester, N. Y.; George C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

American Nurserymen's Protective Association—President, R. C. Berckmans, Augusta, Ga.; vice president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

Nurserymen's Mutual Protective Association—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

American Retail Nurserymen's Protective Association—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

Eastern Association of Nurserymen—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

Western Association of Wholesale Nurserymen—President, Peter Youngers, Geneva, Nebraska; vice-president, A. Willis, Ottawa, Kansas; secretary, E. J. Holman, Leavenworth, Kansas.

Southern Nurserymen's Association—President, Orlando Harrison, Berlin, Md; vice-president, John A. Young, Greensboro, N. C.; secretary-treasurer, Chas. T. Smith, Concord, Ga. Meets at Chattanooga, Tenn., third Wednesday in August, 1906.

Southwestern Nurserymen's Association—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

Texas Nurserymen's Association—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

Pacific Coast Association of Nurserymen—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

Pennsylvania Nurserymen's Association—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

National Association of Retail Nurserymen—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

TO CORRESPONDENTS.

We wish most heartily to thank our correspondents who, from time to time, have sent us news and items of interest to the trade. We are glad to receive reports from the chairmen of committees, and shall be grateful to them if these reports are sent to us as promptly as possible, so that the results of their efforts in behalf of the association may be passed on to our readers with the least possible delay.

ACKNOWLEDGEMENTS.

A number of our readers have been observant and thoughtful enough to let us know that they have noted the recent change of face in our journal. Many favorable comments on the new dress have been received. Progress in journalism, as in all other fields, is the order of the day. We expect to grow in good looks and in usefulness as the years go on. We do not expect to shout our own excellencies, nor claim that we are the whole thing. We hope to have our works speak for us. There is now, no one paper for any trade or profession. There are scores of fine journals in the United States, many which are a credit to themselves and the constituency they cater to; many who have an honorable record of years as well as accomplishments. Our worthy contemporary, *The Country Gentleman*, has just passed its seventy-fifth milestone, and did so quietly and without any extraordinary flourish of trumpets. The anniversary number was marked by a modest historical account of the progress of the paper from its foundation to the present day. We like this style of journalism, and believe it is the kind that is destined to live and last. We of the National Nurseryman aim to furnish horticultural information, rather than horticultural gossip; to give food for thought in addition to trade happenings. We are grateful for the patronage and the encouragement and assistance accorded us in past years, and in entering upon the fifteenth year of the existence of this journal, we do so with a determination to stand for the best interests of the great tree-growing fraternity, and give unstintedly of such talents as we have in furthering these important interests.

THE SPENCER SEEDLESS APPLE.

This apple, which the promoters insist upon propagating and selling throughout the country in advance of experiment station or individual trial, was exhibited at the New York State Fruit Growers' meeting at Lockport. There were five or six specimens of an apple of medium size, regular form, but with one exception — unattractive color. The skin was smooth, more or less covered with a dull shading of red, except in the case noted, when the specimen was fairly well tinged with light and dark red. One specimen, the best colored one was cut by Mr. Fell, of Buffalo, who is promoting the propagation and sale of the apple in this section of the country. The specimen cut was entirely seedless; it was not only seedless, but the core region was mainly occupied with close-grained flesh, and this character of the texture prevailed throughout the fruit. The core carpels were present, but of

diminished size. There was some evidence of a superimposed set of core carpels. Samples of the apple were tested by an informal committee, and opinions as to its quality were exchanged. It was compared with Northern Spy and Ben Davis. Its texture compared very favorably with both of these varieties. It was seriously lacking in juice, however, and in flavor was distinctly inferior to the specimen—a New York grown specimen, too—of Ben Davis, with which it was compared. Of course, it was therefore not to be considered as being in the class of Northern Spy. If these specimens represent the quality of the fruit, there seems no good reason why it should be propagated, and no apparent justification for pressing it upon the public. It is a curiosity, apparently without valuable commercial or amateur characteristics.

A NURSERYMAN'S CREED.

I believe in my business.

I believe in growing the best.

I believe in good stock and living prices.

I believe in working the ground hard and in rotating my tree crops.

I believe in good blood, rigid selection and thorough training.

I believe that the best a thousand miles away, may not be the best in my locality.

I believe that, apart from all other considerations, honesty is the best policy.

I believe in always handling trees as if they were to be planted on my own grounds.

I believe in trying to sell the man who does not know varieties, what is best for him, rather than what he thinks he ought to have.

I believe in advertising as a legitimate means of furthering business. I do not claim the earth, but only a part of its produce.

I believe the nurseryman occupies the most responsible position among the husbandmen of the earth, and I will always try to live up to my obligations.

I believe that the man whose carelessness mixes varieties should go into some other business; and that the man who deliberately changes labels is an eligible candidate for a home in a warmer climate.

CO-OPERATION IN THE SELLING OF FRUIT.

Many attempts have been made by fruit growers to effect organizations which will enable them to sell their fruit more advantageously than is usually the custom. A large proportion of these so-called co-operative selling organizations have failed. These failures are attributed to a number of causes, very often the lack of faith in the enterprise by the co-operators themselves. Again, some successful co-operative organizations have been broken up by members being drawn away by fruit buyers who offered prices in advance of those they were securing through the association. The larger price may have been offered with the ostensible reason of breaking the association; and the fact that the prices have been accepted by the growers, demonstrates the theory that they did not realize the purpose of the offer, or, at least, were not sufficiently far sighted.

Latterly, new types of these have been organized here and there in the country. One of these is a joint-stock company for the fruit growers. The joint-stock company has all the privileges of the co-operative association, but is invested with the fuller authority which comes to the joint-stock company under its act of organization. One of these associations has done excellent work the past season at Thornbury, Ont. The stock company, as stated in the *Canadian Horticulturist*, forms a sufficient bond among the members to hold them together, and the promise of a dividend adds the desired incentive. The joint-stock company promises to be a new factor in the selling of fruit. There is now more interest in co-operation among fruit growers on the Canadian side than in any part of the country, California excepted. New York state fruit growers have been laboring with the problem for some time, but thus far have not made any substantial progress.

OIL SPRAYS FOR SAN JOSE SCALE.

In a recent issue of the *Rural New Yorker*, Professor M. V. Slingerland outlines some experiments which he is carrying on in fighting this arch-enemy of the orchard, with one of the so-called soluble petroleum oils. One gallon of the oil was diluted with fifteen parts of water, and a very thorough application made. The professor estimates that he killed ninety per cent. of the scale, of all ages; but was prevented from doing a more thorough job by the foliage then on the trees. The spraying was done in October. The breeding of the insect was stopped, and another application was made late in November, when the leaves had fallen. He thinks the second application would kill at least five per cent. more of those remaining. Having cleaned them off, then, to the extent of five per cent. of the total number, and supposing that this five per cent. would represent, on a moderately infested tree, 250 living scales, he reasons as follows: Suppose the winter killed one-half of these. There would be only 125 living in the spring. Then suppose that one-half of these would develop into males. This would leave 62 female scales remaining. Each of these is capable of giving birth to from 100 to 500 young lice. Call it only 100, and the first crop of young scales would then amount to 6,000 or over. Remembering that there may be at least two more broods during the season, one is almost appalled at the possibilities of these few insects that escaped destruction, and the necessity of the most thorough kind of work being done is emphasized. If the fall spray is, however, supplemented by an early spring spray with the same material, one would be likely to kill off most of those which come through the winter, and at the same time make conditions very unfavorable for the development of the scale in spring. There seems a good deal of reason for relying considerably upon the fall and early application of either soluble oil or lime and sulphur.

There occurred in Vienna, early in the summer, a very important convention. This was a meeting of botanists, and it was called an international botanical congress.

HORTICULTURAL NOMENCLATURE.

The purpose of the meeting was to consider rules for the naming of plants. This is important to horticulturists, because we are concerned with the correct naming of plants as intimately as are the members of the more technical side of the profession. One of the rules which this congress affirmed was that "Garden forms and sports are to be given vernacular names as different as possible from the Latin names of species or varieties. When feasible, these common names are to be connected with the botanical species. For example, *Pelargonium zonale*, Mistress Pollack. All hybrids are to be designated by having a multiplication sign (X) precede the generic name. When the parentage is known, it is indicated by connecting the two names with the multiplication sign. These rules have been used more or less generally by horticulturists during the past ten years. One of the rules which conflicts with the usage adopted by some American botanists is that a generic name shall not be followed by the same specific name, as, for instance, Catalpa catalpa. In such a case the specific name must be the first used after the employment of what is now a generic name as a specific name. Some of the rulings are not strictly in accord with the practice and opinions of American botanists, but it is probable that most of them will be adopted.

INTEREST IN NUT GROWING.

There appears to be a well-developed and fairly substantial interest in the pecan industry of the South. The Nut Growers' Association has been instrumental in fostering this branch of fruit growing and pushing the culture of pecans and other nuts in the southern states. It would appear that there is an appropriate and promising field for the exploiting of this valuable, though not always appreciated, article of food. There are at present a number of large orchard enterprises under way in Mississippi, Louisiana and Georgia in the exploiting of bottom lands, where the pecan is found naturally distributed. A good deal is being said, and some progress is actually making in the grafting over of wild pecan trees in the natural nut-growing sections. Both budding and grafting are practiced, and some propagators are most enthusiastic about the possibility of re-topping established pecan trees of considerable size.

The day of the seedling pecan is past, and those who wish to keep in the front rank in the pecan business aim to propagate only the best named varieties. Pecan trees require plenty of room. Fifty feet apart is a minimum distance, and one hundred feet may be regarded as maximum. Their growth is so rapid that in twenty years at fifty feet apart the tops may begin to interlace.

This crop is one, which like the apple, matures comparatively slowly, as a pecan tree is not expected to reach its prime before fifty years. Among the leading varieties are Stuart, Van Deman, Russell, Pabst and Moneymaker. It would appear that the pecan industry was one of those which had a fairly substantial and promising future, as the market for the nut is constantly increasing.

Our Book Table.

"The First County Park System." Cloth with half-tone illustrations. Frederick W. Kelsey. Published by the J. S. Ogilvie Publishing Co., New York. Price, $1.25.

In this volume we have a noteworthy beginning of an effort to chronicle the history of the development of county park systems. It contains a history of the inception and construction of the Essex, N. J. County Park enterprises. It is interesting especially from the standpoint of the municipal politician, because inside history is given which will be most instructive and almost invaluable to men who are anxious to promote similar enterprises. But it must not be supposed that the book is entirely devoted to the business and political sides. The aesthetic and purely architectural issues are discussed from the standpoint of the man who has a feeling for plants and natural history. The whole work shows an exceedingly careful review of the progress of the movement, and an intimate knowledge of municipal affairs. The author, Mr. Frederick W. Kelsey, is a nurseryman with strong leanings towards landscape architecture, and with his wide experience he has a breadth of vision which has enabled him, as vice-president of the commission having this work in charge, to view the thing both from the inside and outside aspects. To municipal reformers, civic improvers, and landscape architects generally, this book will prove most valuable.

The book is well made and is illustrated with a number of half-tones in the form of inserts, which add very much to the attractiveness of the work. The whole volume bears the impress of a man who is deeply and personally interested in the theme, and as a chapter in municipal history it is a noteworthy contribution to this subject. Those who would further public enterprises of this kind undoubtedly may equip themselves greatly for their campaign and avoid many difficulties by first acquainting themselves with the history of the development of this great park system.

"Practical Cold Storage." 6½ x 9½ inches. 600 pages, illustrated. By Madison Cooper, Watertown, N. Y. Publishers, Nickerson & Collins Co., Chicago. Price, $3.50, cloth; $4.50, morocco.

The appearance of this book is a response to the demands of the age. The growth of refrigeration in its application to the industries has been phenomenal; and in its application to the products of the farm and orchard it is to be regarded as an invaluable boon. The author has given to the public a very valuable contribution to the literature of cold storage treated from the historical, the practical, and the theoretic standpoints. He has not discussed mechanical refrigeration, as it is understood at the present time; but after developing the principles upon which refrigeration rests, he has described a special method of cold storage by the use of chloride of calcium, having particular value for small or moderate size places. Following this are chapters treating on particular kinds of produce, as eggs, cheese, butter, fruit, storage for nurserymen, the storing of fish, of furs and fabrics, and miscellaneous products. There is then a very interesting discussion of ice storage, followed by a chapter on storage service for retail produce dealers. The volume is filled with first hand information. Especially valuable is that part treating of the principles underlying successful storage. The details and suggestions for the construction of properly insulated walls, and the circulation of air in storage houses, are exceedingly valuable and typical of the character of information offered in the book throughout. We have much pleasure in commending the volume, which may be procured through this office at the prices mentioned.

CATALOGUES RECEIVED.

The Jewell Nursery Co., Lake City, Minn. General catalogue of fruit stock, trees, and small fruits. Catalogue of 65 pages covering the general field of the nurseryman, and illustrated with an abundance of half-tones, which faithfully illustrate trees and fruits.

Stark Bros., Nurseries and Orchards Co. Wholesale price list of stocks, fruit trees, and shrubs.

F. R. Pierson Co., Tarrytown-on-the-Hudson. Wholesale price list bulbs, palms, etc., fall of 1905. Attractively illustrated.

The Flansburg & Potter Co., Leslie, Mich. An attractive catalogue of strawberries and small fruits.

The Frazer Nursery, Huntsville, Ala. Surplus list nursery stock.

H. J. Webber & Sons Nursery Co., Nursery, Mo. Illustrated and descriptive catalogue.

Doings of Societies.

CANADIAN FRUIT GROWERS IN CONFERENCE.

ASK FOR INCREASE OF IMPORT DUTIES ON FRUIT.

Dominion fruit growers are to meet in general convention in the city of Ottawa some time during the month of February, for the purpose of discussing ways and means of perfecting closer union of the various interests in the horticulturist's field.

NOVA SCOTIA FRUIT GROWERS MEET.

The annual meeting of this lively association was held at Annapolis Royal, December 13, 14, 15. At this meeting it was developed that the total export apples of the province would probably not exceed 300,000 barrels this year. Papers and addresses were given by Prof. F. C. Sears of the Agricultural College at Truro; Mr. R. W. Starr of Wolfeville; Mr. W. T. Macoun of Ottawa and Inspector Vroom of Middletown.

Resolutions were passed asking the government to place the express rates under the control of the railway commission.

PRINCE EDWARD ISLAND FRUIT GROWERS.

This association met at Charlottetown, December 19-20. The same speakers from abroad addressed the meeting as in the case of the Nova Scotia fruit growers. Mr. Macoun recommended the following varieties as commercial standards: Gravenstein, Alexander, Ribston, Blenheim, King, Spy and Stark, these to be permanent trees, and for fillers Wealthy, Wagener and Ben Davis.

NEW BRUNSWICK FRUIT GROWERS' ASSOCIATION.

This comparatively young organization held a two days' session at Fredericton on January 25 26. Speakers from the provincial college of agriculture and from the Dominion Department were present.

ONTARIO VEGETABLE GROWERS.

The Provincial Association of Vegetable Growers of Ontario are busy effecting local organizations throughout the province, and they appear to be quite successful. Toronto, Sarnia, Chatham, St. Catherines, Hamilton and other smaller places have organized branch associations, and are stimulating the interest and adding to their knowledge on the subject of vegetable growing.

The Quebec Pomological Society met at Richmond on December 20. The officers of the organization for the coming year are: R. W. Shepherd, Como, president; J. C. Chapais, St. Denis, vice-president; Dr. H. W. Wood, St. Johns, secretary-treasurer.

WESTERN ASSOCIATION OF NURSERYMEN.

The following firms were represented at the last meeting of this association in Kansas City:

Alabama Nursery Co., Huntsville, Ala.; Bates Bros., Floral, Kas.; Blair & Kaufman, Kansas City, Mo.; A. L. Brooke, North Topeka, Kas.; J S. Butterfield, Lees Summit, Mo.; Wm. Cutter & Son, Junction City, Kas; A. C. Griesa, Lawrence, Kas.; A. H. Griesa, Lawrence, Kas; T. E. Griesa, Lawrence, Kas.; W. F. Heikes, Huntsville, Ala.; J. W. Hill, Des Moines, Ia.; Holman & Bente, Leavenworth, Kas.; D. S. Lake, Shenandoah, Ia.; J. A. Lopeman, Enid, Okla.; E. Mohler, Plattsburg, Mo.; Marshall Bros., Arlington, Neb.; New Haven Nurseries, New Haven, Mo.; Peters & Skinner, North Topeka, Kan.; Geo. W. Sallee, R. Rd. Ave. and Broadway, St Louis County, Mo.; J. W. Schuette & Co., 5600 Gravois Ave., St Louis, Mo.; The Sedgwick Nursery, Sedgwick, Kas.; F. H. Stannard & Co., Ottawa Kas.; Stark Bros. Nursery & Orchard Co.; Louisiana, Mo.; Sherman Nursery Co., Charles City, Ia.; L. R. Taylor & Son, Topeka, Kas.; E S. Welsh, Shenandoah, Ia.; Williams & Bernardin, Parsons, Kas.; A. Willis, Ottawa, Kas.; J. Wragg & Sons, Waukee, Ia.; F. W. Watson & Co., Topeka, Kas.; Youngers & Co., Geneva, Neb.

OKLAHOMA NURSERYMEN IN CONVENTION.

ENTHUSIASTIC ABOUT TEXAS MEETING.

A very successful and enthusiastic meeting of the Oklahoma Nurserymen Association was recently held at Guthrie. We are indebted to President Albertson of the National Association for some notes regarding this meeting. Among those who were present from out of the state were Mr. Bernardin of Parsons, Kansas, and President Albertson.

The Oklahoma Nurserymen in convention placed themselves on record as being in favor of a uniform tag so that stock may be shipped from state to state without a possibility of being held up indefinitely by State Inspectors. Mr. J. A. Lopeman of Enid, Okla., and President Albertson as members of a special Committee in charge of this question, waited upon the state officers having this matter in hand and convinced them that it was desirable that a reconsideration of the present inspection laws which make shipment of nursery stock into Oklahoma so difficult and troublesome, should be undertaken.

The Nurserymen of this new region are very enthusiastic about the coming annual meeting and promise to contribute a liberal quota to the attendance at Dallas next June.

PENNSYLVANIA NURSERYMEN IN CONVENTION.

The second annual meeting of the Pennsylvania Nurserymen's Association was held in the Hotel Gettysburg, Gettysburg, Pa., January 15th and 16th.

Following the plan adopted last year, only members of the Association were admitted to the meetings.

The Executive Committee had arranged a very interesting programme. Papers were read by Abner Hoopes and Geo. Achelis, West Chester, Pa.; Wm. Warner Harper, Chestnut Hill, Pa.; Thos. Rakestraw, Kennett, Pa., and others.

By special invitation, Prof. Geo. Butz, one of the State Nursery Inspectors, gave a "Heart to Heart Talk" at the session held on Monday evening.

On Tuesday morning Prof. H. A. Surface, State Zoologist and E. B. Engle, State Nursery Inspector, also addressed the meeting.

A resolution was passed endorsing the set of resolutions adopted at the meeting of the American Horticultural Inspectors, recently held at Washington, D. C., covering the Uniform Tag System, &c., and the Legislative Committee were directed to use their efforts to secure such legislation if possible.

The officers of last year were re-elected and Harrisburg selected as the place of meeting for next year.

From January 15th to 20th a very important series of meetings was held at the University of Nebraska, Lincoln. This included all the associations for the promotion of agriculture and animal husbandry in Nebraska. The meeting was the fifth annual in the series. Included in the group is the American Breeders' Association, which included the breeding of animals as well as plants.

PENNSYLVANIA HORTICULTURAL SOCIETY.

The Pennsylvania Horticultural Society met for its 47th annual session at Pittsburg on January 16-17. The principal speakers were H. W. Collingwood, editor *Rural New Yorker*, who presented an address on the business of the small fruit grower. Mr. A. N. Brown of Delaware discussed orchard management. San José scale was treated in a paper by H. A. Surface of Harrisburg, while the Department of Agriculture was represented by Prof. M. B. Waite, who gave his address on fungous diseases of orchard fruits, and Wm. A. Taylor, who spoke on the pomological investigations of the United States Department of Agriculture.

OFFICERS OF THE NATIONAL NUT GROWERS' ASSOCIATION.

President, E. W. Kirkpatrick, McKinney, Tex.; first vice-president, Dr. J. B. Curtis, Orange Heights, Fla.; second vice-president, Prof. F. H. Burnette, Baton Rouge, La.; secretary-treasurer, Dr. J. F. Wilson, Poulan, Ga.

Quiz Column.

CONSTRUCTION OF STORAGE CELLARS.

Will any nurseryman who has had experience in the use of the new style of pressed stone in the construction of storage cellars, give our readers the benefit of his observations on this material in an early issue of the NATIONAL NURSERYMAN? A correspondent is anxious to know how this material is likely to serve in construction work of this kind, and whether it is as cheap as cement, and as efficient as an insulating agent, as the ordinary double wall. We are glad to present Mr. Cooper's interesting reply below, but would like additional experience if it is available.

HOLLOW TILE FOR CELLAR CONSTRUCTION.

ANSWER TO INQUIRY OF H. D., FREMONT, OHIO.

Hollow foundation tile or building blocks made of cement or other materials are of course more of a non-conductor than a solid wall of similar material, but speaking roughly, the additional insulating value of the hollow block construction is not sufficient to warrant the additional expense. For cheapness, frame construction is the best, and it is also easier to insulate such a building, as the studding may be filled with some non-conducting material like mill shavings, and if necessary other insulation may be added inside the studding. It is very important in constructing a building in this way that the shavings be protected on both the exterior and interior surfaces by the best grades of insulating paper properly applied. There should also be similiar protection in the roof or ceiling of the room. There is no great objection to an earth or dirt floor but a foot of locomotive "breeze," or "head end cinders," with a foot or 18″ of soil on top would be far better than only the original soil.

If the question of insurance is considered then the brick or hollow tile block construction may be used, but eliminating the fire risk and the question of durability the frame construction is far better as insulation, at the same cost, or equally good insulation at a far less cost.

Watertown, N. Y. MADISON COOPER.

ROOT GALL.

Would it be safe to plant apple and cherry stocks on land that has been growing red raspberries, that are affected with crown gall?

SUBSCRIBER.

Answer.—In regard to planting apple trees upon such land I would not hesitate to do so, but on the other hand as to the advisability of planting cherries I am not quite so certain. Cherry roots as a rule are quite resistent to inoculations with raspberries crown gall and it is very likely that no great loss would follow the planting of cherry stocks upon such ground. GEORGE G. HEDGCOCK,

Assistant in Pathology, U. S. Dept. of Agriculture.

CLASSIFICATION OF LARIX EUROPEA.

Are Larix Europea seedlings classified correctly as evergreen seedlings, or should they be ranged among ornamental trees; also, what is the customary version among the nurserymen's trade? Should like the same question answered about Southern Cypress (Taxodium distichum). A SOUTHERN NURSERYMAN.

Answers.—It is certainly not strictly correct to place European larch in the evergreen section, because the tree is not evergreen. It belongs to the coniferous group, and should be there placed. If a nurseryman makes a general classification based on use, there is no reason why it should not be placed with ornamental trees, because it is strictly a tree of that class. As a matter of usage, the larch is always included with the evergreens. As a matter of technical accuracy, it is out of place. This is the nurserymen's custom. C.

I should understand that the term Evergreen Seedlings not to include the Southern Cypress or the Scotch Larch. Perhaps I may be a little premature in making this statement, because I doubt very much if the question has been discussed to any extent.

Reading, Mass. J. W. MANNING.

Business Movements.

THE GARDNER NURSERY CO., OF OSAGE, IA.

Mr. C. F. Gardner of the Gardner Nursery Co., Osage Ia., is one of the veteran fruit growers of the northern part of that great state. He has from time to time occupied important positions in the councils of the district horticultural society, and also of the State Horticultural Association. In both of these organizations he has filled the president's chair most acceptably, and contributed valuable matter to the papers and discussions contained in the reports of the Iowa State Horticultural Society.

BOWER PURCHASES THE GAGE NURSERY.

Mr. P. L. Bower, Beatrice, Neb., has purchased the well known nurseries of J. A. Gage of the same place, and will have an office at 644 West Court St., Beatrice, and conduct a general nursery business with headquarters in that town in the future. Mr. Bower follows a good grower and a man of wide reputation in the middle West. We wish him a large measure of success.

THE EXTENSION OF THE MOUNT ARBOR NURSERIES.

The NATIONAL NURSERYMAN wishes to congratulate the progressive members of the Mount Arbor Nurseries on the acquisition of a Nebraska branch. This has been described in another column of the paper. This branch will be located at Fremont, on the main line of the Union Pacific from Omaha to the Coast, and the main line of the Northwestern Railway in Nebraska Fremont is a connecting point between Sioux City and Omaha on the Burlington and Great Northern. The manager of this branch will be Mr. G. L. Welch, who while a comparatively young man when measured by years, is by experience a veteran in the nursery business. We predict a splendid future for these two hustling Welch Brothers.

ORCHARD COMPANIES.

The North Mountain Orchard Company of Berkley County was recently organized at Martinsburg, W. Va., with a capital of $10,000. This organization expects to develop 350 acres of land for the purpose of growing apple orchards.

Another company organized in the same state has been called the Sutton Stillwell Apple Co. Berkley County is developing rapidly, and it has been estimated that $75,000 is being invested in this business in the county each year for quite a number of years past.

BUSINESS MOVEMENTS.

The Spaulding Nursery and Orchard Company of Springfield, Ill., has recently been acquired by Messrs. A. H. Rogers and B. F. McGill who will conduct a thoroughly up-to-date nursery business. Mr. Rogers and Mr. McGill recently called on Rochester and Western New York Nursery-men.

APPLE EXPORTS.

The apple exports from all points for the week ending December 30 were 44,159 barrels. New York shipped 5,887; Boston, 11,399; Portland 8,316; Halifax, 16,967; St. John, 1,590. These were distributed as follows: Liverpool, 20,857; London, 16,421; Glasgow, 968; Hamburg, 1,813; Havre, 3.287; Bremen, 217; Manchester, 500; Bristol, 146.

CUBAN TOMATOES.

The first shipment of Cuban tomatoes for the season of 1905-6 was received by C. H. Weaver & Co., of Chicago on December 23rd. This consisted of 250 cases. The shipment did not arrive in first rate condition and the stock had to be repacked. It sold after repacking for $2.50 to $2.75 per case.

The *Florists' Exchange* of January 6 presents an appreciative and illuminating account of the nursery of Ilgenfritz Sons Co, at Monroe, Mich. This nursery was established by the late I. E. Ilgenfritz in 1847, and is now one of the substantial and noted nursery firms in Michigan and the old Middle West.

Obituary.

SAMUEL B. PARSONS.

Long Island is in many respects to be considered the cradle of the nursery business in the eastern states. Here was located the famous Prince Nurseries, and here also is to be found the noted Parsons Nurseries of Flushing. In the death of Samuel B. Parsons in January, there passed away a veteran in this field. He lived to the good old age of 87 years. He was educated in a private school, like many of the young men of his time, beginning his business career as a clerk in New York City. It was in 1839 that he established the nursery at Flushing. Not satisfied with his own knowledge and training he went abroad in 1845 to travel and study the horticulture of the old world. Returning he visited Florida, became interested in citrous culture, and started a plantation of oranges in that state, where he is also credited with having introduced the seedless orange. Subsequently he was commissioned by the government to investigate the horticulture and agriculture of the citrous regions of Italy and Spain. Mr. Parsons joined with his brother and conducted a successful business at Flushing, under the name of the Parsons Nurseries for a number of years. He later on established the Kissena Nurseries, where he made a specialty of rhododendrons and Japanese maples. As a promoter of the planting of handsome ornamental trees, and as an introducer of rare types of ornamentals Mr. Parsons' work places him in the front rank of nurserymen. Personally he was an interesting and lovable character.

In addition to his life work as a nurseryman he was prominently interested in many business enterprises. In religion he was a Quaker, and in the troublous times previous to the Civil War he was a staunch abolitionist and took an active part in assisting slaves to liberty. The business which Mr. Parsons established is now conducted by his grandchildren. Miss Mabel Parsons is now president of the company.

DAVID H. PATTY.

The subject of this sketch was born in Auburn, N. Y., about the year 1850, where he attended the public schools. After completing his education, and about the spring of 1869, he went to Geneva, N. Y., and entered the employ of the then well-known nursery firm of Selover, Graves & Willard as head bookkeeper, which position he filled with marked ability and success. Subsequently he entered the employ of Hammond & Willard, serving as bookkeeper and timekeeper. After remaining with this firm for a few years he branched out for himself and engaged in the retail nursery business with offices at Geneva, N. Y., and Newark, N. J. Here he went on the road himself, looking after his salesmen and breaking in new men. His business grew to such proportions that he was obliged to give up his Newark office and devote his whole time to the managing of his men from Geneva, where all his packing was done. About this time, too, perceiving the fact that good stock was hard to get he went largely into the growing of nursery stock to fill his retail orders, and at the time of his death had a great many acres under cultivation; and, besides his retail trade, had built up a big wholesale trade too. Besides his wholesale and retail nursery business he was engaged extensively in the orchard business and was a large stockholder and director in the Geneva Cutlery Company. He took a very active interest in the affairs of his church and was one of its leading members. His pleasant ways and kindly disposition endeared him to all with whom he came into contact, and his sudden and untimely demise was not only a distinct shock to his family but was a surprise to the city in which he lived. He leaves a widow and one daughter to mourn his loss. T. S.

COL. MARTIN VAN BUREN CHASE.

We are informed by Augusta, Maine, papers of the death late in December of a man who was prominent in nursery circles for many years, having been one of the charter members of the Chase Bros. Co. of Rochester. Martin Van Buren Chase died in Augusta, Maine, after a short illness from pneumonia. He was born in 1835, and was an organizer, and for many years a member, of the firm of Chase Bros. Co., of Rochester, which was established in 1857, and brother of Lewis Chase. He withdrew from this firm in 1880. He was a veteran of the Civil War and always took a prominent part in the affairs of the state and of the county in which he resided. At various times he held important official positions under the chief executive of the state. Of late years Col. Chase was identified with the banking interests of Augusta, and served as president of the Kennebac Savings Bank from 1887 till the time of his death. The personality of Col. Chase was such as to bring him the respect and confidence of his fellow citizens, and he was always regarded as a true gentleman and upright citizen.

CHARLES FREMD.

This well known importer died early in December at his home in Rye, N. Y. Mr. Fremd was of German extraction, having been born in that country, but for fifty-two years was a resident of the U. S. He was a man of striking personality. In early days and up to the time of his death he was regarded as an authority on horticultural and agricultural topics. He was a friend of Horace Greeley, and an acquaintance of the leading horticulturists of Canada and the United States. Not only was he an importer and a plant grower, but a good deal of a landscape gardener. Some years ago he was instrumental in laying out and planning the grounds of one or two of the leading Flagler hotels in Southern Florida. The business which Mr. Friend organized is being continued by his sons.

W. H. WASHBURN.

William Henry Washburn died at Foxbury, Mass., on December 27th, at the age of sixty-seven years. He was a prominent florist and vegetable grower. As a wholesale cut flower grower he was well known in the trade.

LOUIS LANG, SR.

The death of Mr. Lang occurred on December 26th. He came to this country from Wurtemburg, Germany, forty-five years ago, and has lived and worked in Buffalo practically continuously since that time.

THOMAS HEWITT, SR.

Thomas Hewitt, a florist of Monmouth, Ill., died on December 23rd, 1905. He was born in England in 1841, and carried on the business of florist and market gardener in Monmouth since 1875.

DESSERT APPLES FOR BOSTON.

What is the best dessert apple for the Boston market, is discussed in a recent issue of the *Rural New Yorker*, and opinions are offered by seven or eight of the Boston commission men. The list offered by A. Warren Patch includes in order of ripening, Astrachan, Williams, Gravenstein, Wealthy, McIntosh and Fameuse. Gravenstein is mentioned oftener than any other variety, McIntosh next, with a few scattering votes for King, Maiden Blush, and Newtown Pippin. The reason that Gravenstein is popular in the Boston market is probably due to the fact that Nova Scotia provides the "bean eaters" with a good article of her Annapolis Valley product.

EDITOR, NATIONAL NURSERYMAN.

Sir:—I have enjoyed reading your paper and feel the need of it. I think it is a splendid plan to publish pictures, it kindles an interest and lends an influence that cannot be well estimated. It is interesting for nurserymen to see what their brothers in the "Art" are doing. We have had a very pleasant winter here so far and prospects are good for the spring trade.

With best wishes for your continued success,

I am yours, very truly,

Freeport, Illinois, JOHN M. WISE.

"THE WISE AVENUE NURSERIES,"

Note and Comment.

COMMISSION CHARGES.

There is an agitation among commission men in favor of establishing a uniform commission charge. Some fruit handlers are of the opinion that the perishable fruit and vegetable business should be placed on a uniform 10% commission basis. The views of both sides have been aired in recent issues of the *New York Packer*.

The price of cranberries has ranged unprecedentedly high this winter. In Baltimore they have sold as high as $18 a barrel, and commission men are talking of an advance of $2 or $3 on this price.

It is estimated that 13,000 acres of land are devoted to fruit culture in the province of British Columbia. The area is being rapidly extended and those interested in the industry are confident that 20,000 acres will be covered in a comparatively short time.

ORANGE CROP.

Various estimates have been presented at different times and are offered each year on the prospective citrous crop of California The latest guess is that made by the *Riverside Press*, which, however, seems to be an estimate based on rather close examination of the situation. This estimates that there will be the present season 22,970 cars of oranges, and 3,770 cars of lemons, or a total of 26,740 cars of these two types of citrous fruits in southern California.

PEAR BLIGHT IN CALIFORNIA.

Californians are becoming thoroughly awake if not excited anent the rapid development of pear blight in that region. They have requested the Department of Agriculture at Washington to send experts who will lead them in the fight against this dangerous enemy to the pear. The Sacramento Valley Department Association has agreed to pay the expenses of these experts up to the amount of $1,200, in order to set the sanitation movement well in progress.

BOX MATERIALS.

Those who desire lumber for box-making materials will find the Goodwillie Bros., 407 New York Life Building, Chicago, Illinois, first class people to deal with. Not only do they sell lumber, but they also manufacture tree boxes.

SPECIAL BADGE.

The program committee with the executive of the Association are studying the question of a special and appropriate badge for the next annual meeting. These badges will contain some distinctive feature suggestive of the state and of its products in which the convention is to be held.

GOOD WISHES FROM OUR SUBSCRIBERS.

O. K. Phillips, Rockdale, Tex. "I can not afford to be without the NATIONAL NURSERYMAN. I get a great deal of valuable information from it. Wishing the paper a prosperous New Year."

G. H. Miller & Son, Rome, Ga. "We are pleased to enclose our subscription for the NATIONAL NURSERYMAN for 1906. We are more than pleased with the journal, and look upon it as a necessity in our office."

Geo. H. Whiting, Yankton, S. D. "Of course I must have the NATIONAL NURSERYMAN, and enclose my subscription for another year. For those in the trade it is an excellent paper, but of course it would suit me better if it were a little more western."

NOTE.—That's right, Brother Whiting, stand up for your own country. We used to think that the Dakotas belonged to the buffaloes and the Indians, the grasshoppers and the periodical drouths, but men like the Whitings have come along and the face of the land is being transformed. Groves have sprung up around farm houses, wheat is growing where squirrel-tail and Russian thistle formerly flourished. The fruits that are adapted are being improved, and new ones developed. Who knows but we will some day find the banana belt along the banks of the Niobrara or Yankton Rivers!—[ED.]

Fruit and Plant Notes.

TESTING FRUITS.

The work of testing varieties of summer fruits still goes on among the experiment stations. And it is eminently proper that it should do so; for to our notion, there is no other way by which the sympathy of fruit growers for scientific and experiment station work may be developed so readily. Then again, one man is intensely interested in this phase of work and not in any other. He sees varieties and measures their individual values. Another man has his mind occupied with the more purely commercial side; and so on. Therefore, it is well that experiment stations should keep the different aspects and points of view of the amateur and practical horticulturist in mind.

One of the experiment stations which has long been interested in the testing of varieties is the Central Experiment Farm, at Ottawa, Canada. Strawberries have been tested for many years, and more than four hundred varieties have run the gauntlet of the horticulturist's critical eye. Among the varieties which they have found in their last series to be most promising and desirable are: Mele, Arkansas Traveler, Buster, Glen Mary, Sample, Warfield, Greenville, Bissel, Bederwood, Lovett, Bubach, Afton, and Thompson's Late. It will be noted that this list includes a number of the recognized and so-called standard varieties. Strawberries are certainly more unstable than most other fruits. Hence the necessity of keeping tab on the new arrivals is all the more urgent.

DAIMYO, AN INTERESTING JAPANESE PEAR.

This peculiar Japanese pear was grown at the New York experiment station at Geneva. It resembles the Chinese sand pears. The fruit was exhibited at the last winter meeting of the American Institute. It is rather attractive in appearance. Although the tree is a good grower, producing large crops annually, Prof. U. P. Hedrick of the station says, the fruit of Daimyo is far below standard kinds in flavor and quality. It is of medium size, yellow, but thickly sprinkled with russet dots. The flesh is white, tough, and moderately juicy. It resembles the Keiffer somewhat in flavor, but is poor in quality. The season is October and November. It is worthless for dessert purposes, but may possibly have some value for cooking in regions where nothing better can be grown.

GRAPE CROP.

The grape crop of Chautauqua County last year is estimated to have brought to the owners, notwithstanding loss by rot and other enemies, $1,500,000. The prices ranged high, and as a consequence 1906 is likely to witness a considerable extension of the grape area.

BEN DAVIS CONSIGNED TO ORIENTALS.

P. N. Kiely, the well-known commission man of St. Louis, thinks that there is a promising outlook for the Ben Davis in the Hawaiian Islands, the Philippines, New Zealand, and in some of the German colonies. He is of the opinion that it will take these aborigines a long time to realize the real qualities of the Ben Davis, having no opportunity to compare them with those of other varieties!

PAPER BERRY BOXES.

The commission men of New York are inclined to object to the paper strawberry box. The box is inclined to lose form when it softens under the influence of the juices which come from the fruit, and some shippers claim that the paper boxes being less pervious to air than the wood, the fruit does not carry in it as well. On the whole the New York trade discourages the paper box.

ADVERTISE THE ANNUAL MEETING.

We observe that some members of the Association are advertising the coming meeting in a very effective way by placing at the head of their letters, the information that the annual meeting will occur in Dallas, Texas, and that it should be the pleasure and duty of all nurserymen to attend. Mr. Herbert Chase of Huntsville, Alabama, is leading in this kind of advertising.

Legislation.

COMMITTEE ON UNIFORM TAG TAKING ACTION.

President Albertson is in receipt of the following interesting communication from the chairman of the committee on devising a uniform tag recently appointed by the horticultural inspectors at their meeting in Washington. This committee, says the letter, was instructed "by the Association to have charge of issuing one tag, good to admit nursery stock into all states requiring tags. Said committee to elect a secretary who shall secure a statement from the official inspectors of the state of each nursery wishing to do interstate business, as to the exact conditions of said nursery, and if satisfactory to issue the nurseryman the official tags of the committee at such cost as the committee may decide. In case the conditions of such nursery are such as to make allowing his interstate business doubtful, the statement of his condition must be submitted to all members of this committee and a certificate issued only on approval of all members. The committee also recommends that a designated color of tag or certificate be used by this committee and a separate color by all state inspectors for all other shipments of nursery stock not using interstate tags, for each shipping year. And we recommend the adoption of this measure by all boards of control or states involved."

Committee elected: S. A. Forbes, A. F. Burgess, R. I. Smith.

"The above committee met in Washington and elected the undersigned as temporary secretary, with instructions to communicate with the several state inspectors to find out the prevailing opinion as regards the feasibility of the suggested measure. Accordingly the above is given for your consideration. We would be pleased to have you advise this committee if the law in your state will allow of the acceptance of a uniform tag, and if, as chief inspector for your state, you think the above measure worthy of being adopted."

"It has been suggested that the committee would have power to require the fumigation of all stock going into interstate traffic, and also that they would have the power to refuse the certificate of any nurseryman provided the inspection certificate held by such nurseryman did not meet with all requirement."

"As an illustration of the tag system, the state of Georgia requires each out-of-state nurseryman, who desires to ship stock into Georgia, to file with the state entomologist a copy of the certificate of inspection issued by the state inspector. He must also file a signed agreement to fumigate all stock before shipping same into Georgia. The state entomologist of Georgia issues, upon proper showing, a Georgia certificate, a copy of which must be attached to all shipments of nursery stock into the state of Georgia. The states of Alabama, South Carolina and Virginia have somewhat the same requirements. The object of the uniform tag system is to save the nurseryman who does business in all the states now requiring tags, from the necessity of purchasing a separate lot of tags from each of these states. The nurserymen desire to have one tag that will serve for shipments to all states."

"The committee wishes to receive letters from all state inspectors interested in this matter and it is hoped that the several state officials will reply fully, giving their opinion of the measure suggested."

R. I. Smith,

Atlanta, Ga. *Secretary, Committee on Uniform Tag.*

MR. RISIEN REPLIES.

Editor National Nurseryman:

In the December number of your paper, I wrote only what I, myself, would like to have read several years ago. It must be remembered that Mr. Stringfellow's advice comes expensive, and this is what prompted me to write what I did, not in spite, but as a matter of duty. I simply hewed to the line, paying no attention where the chips flew. The nature of the case would not admit of any other way. Neither was it a breach of courtesy, for I never was in Mr. Stringfellow's house. My interview with him was short but pleasant, and I hope he takes it kindly.

San Saba, Texas. E. E. Risien.

EASTERN ASSOCIATION OF NURSERYMEN.

The annual meeting of this association took place in Rochester on January 23rd. Routine business was attended to and the officers of last year re-elected. President, Wm. C. Barry, Rochester, N. Y., Secretary-Treasurer, Wm. Pitkin, Rochester, N. Y.

INFORMATION ON SPRAYING.

Look out for the March number of the National Nurseryman. In this issue tree growers will find the kind of information they are looking for to aid them in their continued fight against insect and fungous parasites. The price of good rose stock, fruit stock or fruit trees is everlasting watchfulness, and the nurseryman who equips himself with men and machinery adapted for this work is the man who is investing his capital wisely. Machines, methods and formulas will be discussed in the March number of the National Nurseryman.

CANADIANS ASK FOR AN INCREASE OF THE TARIFF ON FRUIT.

Canadian fruit growers in the Niagara and Hamilton districts are urging the Dominion government to increase the tariff on the leading orchard fruits. This is ostensibly for the purpose of preventing competition from the United States in the coast markets and in the eastern markets of Montreal and Toronto. At a recent mass meeting of fruit growers in the Niagara district, resolutions were passed asking for the raising of the tariff on peaches from one cent a pound to two cents; on pears from 20 per cent. ad valorum to one cent a pound specific; on plums from 25 per cent. ad valorum to one cent a pound specific; on apples from 40 cents a barrel to 75 cents a barrel. It does not appear that fruit growers of the St. Catherines, Grimsby and Hamilton districts are a unit in their views on this subject, some believing that the tariff should not be raised, others being strongly in favor of it.

THE CANADIAN EXPORT TRADE.

Mr. E. H. Wartman, Dominion fruit inspector at the port of Montreal, reports in a recent issue of the *Canadian Horticulturist*, that "the season on the whole has not been a profitable one for shippers or ship owners." Mr. Wartman further says that "The men who put up apples this season strictly in accordance with the fruit marks act are the men who will succeed." "The inspection of fruit at the port of Montreal this season involved the opening of 8,000 packages." It is the opinion of inspectors that Canadian growers show a marked improvement in packing, and this improvement is largely to be credited to co-operative packing. The increase in boxed apples this season over last was 16,584 boxes.

TO THE TRADE.

MAHALEB STOCKS; CATALPA SEEDLINGS.

We wish to call your attention to the fact that we are the largest growers in the United States of Mahaleb Stocks and pure Speciosia Catalpa Seedlings.

We have spent considerable time and money in growing Mahaleb Seedlings, and now believe we understand planting, care and ground needed to produce the very best stocks. Our stocks produce better rooted cherry than imported stocks. They are thoroughly matured before digging; carefully graded; samples are sent to each new customer for examination before shipment, if desired, and can be shipped from our large and complete storage buildings on short notice.

Two different years we have filled early orders in full when stock had advanced to double the selling price. This year we readily booked in June, which was the first date on which we offered to book orders, all the orders we cared to accept for early sales. These we have filled in full and now offer balance in advertising columns.

We readily sold stocks this year to some of the largest cherry growers in the United States, who had tried our stocks before. How many Mahaleb do you usually plant? If in need this year, write for sample. Yours truly,

Winfield, Kas. Cooper & Moncrief.

ANNUAL DINNER OF NATIONAL ASSOCIATION OF RETAIL NURSERYMEN.

An event which is each year becoming increasingly interesting, and is now looked forward to with pleasurable anticipation by all connected, is the annual banquet of the above live organization. The event took place in the Eureka Club, in Rochester, on the evening of January 23d. The management of the affair was in the hands of a committee composed of B. Frank Allen, W. W. Wyman and E. S. Osborne, of Rochester, and they acquitted themselves nobly. No detail was overlooked, no hitch or interruption occurred to mar the smoothness of the proceedings. The menu and service were agreeable and the music altogether appropriate and delightful. Some of the latter, indeed, was coined for the occasion. For the benefit of other banqueting committees, we present the menu (in compressed form) and the toast list:

The attractive menu forms were generously provided by Mr. M. B. Fox, of the Rochester Lithographing Co.

MENU.

INVOCATION, JOHN C. CHASE

Hooker's Perfection Blue Points, on Half Shell.
Palma Olives Buds. Sprayed Celery Tips.
Rejected Bouillon of Fowl, en tasse, chimay.
Fungus Radishes. San Jose Cheese Wafers.
Graham's Broiled Stony Lake Perch, a la Tomato.
Creamed Capon, en case, Heart Forms, fattened on Rube's windless beans.
Maraschino Punch, a la Car Load Yates.
Cigarettes, 'tis better to smoke here that hereafter,
Roast Young Turkey, fatted on Pinnacle Peach Pits, Farci au truffle.
Up-Hill and down Dale High Bush Cranberries on lithographed plates.
New Potatoes en creme, with Stuart's Family Apple
Brown's Lady Finger Biscuits.
Mayonaise of Shrimps, a la Grover.
Nesselrode Ice Cream, frozen for Papa Josselyn. Baby Rambler Kisses.
Macaroons, Fancy Cakes, Nuggets from Gold fields.
Cheese, Meehan's Philadelphia Cream ; Fumigated Roquefort.
Cafe Noir.
Referee Wood's Badger Cigars.

Among those present from out of the city were: Emory Albertson, of Indianapolis, president of the American Association of Nurserymen; Stanley H. Watson, of Houston, Tex.; J. C. Chase, of Derry, N. H.; C. A. Ilgenfritz, of Monroe, Mich.; J. H. Dayton, of Painesville, O.; T. B. Meehan, of Germantown, Pa.; George S Josselyn, of Fredonia; John Watson, of Newark; J. B. Morey and F. M. Hartman, of Dansville; James Pitkin, C. H. Stuart & Co., Newark, N. Y.

OFFICERS ELECTED.

At the business meeting preceding the banquet, officers for the ensuing year were elected as follows: William Pitkin, Rochester, President; O. G. Chase, Geneva, N. Y., Vice-President; F. E. Grover, Rochester, Secretary and Treasurer; J. B. Kiley, Rochester, Attorney and Arbitrator; W. W. Wyman, Rochester, E. S. Osborn, Rochester, C. H. Stewart, Newark, N. Y., Executive Committee.

SPECIAL CARD OF THANKS.

The banquet committee wish to acknowledge their warm appreciation of the kindness of the Rochester Lithographing Co. in furnishing the Association, free of charge, with the handsome menu forms, which everyone so much admired. A receipted voucher for the printing was presented to Chairman Allen, in lieu of a bill, by Mr. M. B. Fox. The committee take this manner of acknowledging the graceful and generous act.

The following firms and individuals were represented and present at the banquet:

Allen Nursery Co.
B. Frank Allen
Howard A. Barrows
Nelson Bogue
Ernest J. Bowden
Chas. J. Brown
E. C. Brown
P. W. Butler
John A. Charlton
Charlton Nursery Co.
J. M. Charlton
Chase Bros. Co.
Chase & Wyman
R. G. Chase Co.
C. H. Crouch
J. M. Campbell
R. G. Dunn & Co.
Ellwanger & Barry
Fairview Nurseries
Fleming Printing Co.
Chas. Fleming
George Bros.
Gillies Printing Co.
Chas. J. Glidden
Graham Nursery Co.
E. O. Graham
Louis E. Groh
F. E. Grover Co.
Hawks Nursery Co.
George Hart
Henry P. Hill
Hooker Wyman & Co.
Mr. William
Wm. Keyel
R D. Luetcheford
H. W. Mead
McGlennon & Kirby
C. J. Maloy
Geo. Moulson & Son
A. E. Nelson
Arthur Nichols
Oliver Bros.
E. S Osborne
R. T. Olcott
Henry C. Peck
Pinnacle Seed & Nur. Co.
Perry Nursery Co.
Wm. Pitkin
T. W. & J. P. Rice
Rochester Litho. Co.
Rochester Spray Pump Co.
Irving Rouse
Salter Bros.
John C. Shaw
W. T. Smith Co.
Stecher Litho. Co.
Wm. Steele
Storrs & Harrison Co.
C. W. Stuart & Co.
Frank Taylor
H. S. Taylor & Co.
F. H. Teat
Vick & Hill
James Vick's Sons
Vredenburgh & Co.
Western N. Y. Nursery Co.
J. R. White
John Watson
W. W. Wyman
Allen L. Wood
C. L. Yates

TOASTS.

JAMES M. PITKIN, Toastmaster.

"Jimmie had a little Lamb,
Likewise an Oyster Stew,
Salad, Cake, a piece of Pie,
And a bottle of Pale Brew,
Then, a few hours later,
He had a doctor, too."

"Some Reflections"—PROFESSOR JOHN CRAIG, Cornell University.
"Good Fellowship"—REV. MURRAY BARTLETT, Rector St. Paul's Church.
"Graft-ing"—HON. JOHN D. LYNN.
"Texas"—STANLEY H. WATSON, Houston, Texas.

THE BUSY NURSERYMAN.

(Written for the occasion and sung by the Rochester Male Quartette.)

How doth the busy Nurseryman
Improve each shining hour,
And peddle cions, sprouts and seeds
Of every shrub and flower.

How busily he wags his chin,
How neat he spreads his store,
And sells us things that never grew,
And won't grow any more.

Who showed the little man the way
To sell the woman seed?
Who taught him how to blow and lie,
And coax and beg and plead?

He taught himself, the Nurseryman,
And when his day is done,
We'll plant him where the lank rank weeds
Will flutter in the sun.

But, oh; although we plant him deep
Beneath the buttercup,
He's so much like the seeds he sells,
He never will come up.

Singing—"America."
Selections by Rochester Male Quartette.
Music by Susan Tompkins Harp Orchestra.

WESTERN NEW YORK HORTICULTURAL SOCIETY.

ATTENDED BY MANY NURSERYMEN.

The fifty-first annual meeting of this influential body of fruit growers occurred in Rochester on the 24th and 25th of January. The meeting was the most largely attended and successful in the history of the organization. President W. C. Barry occupied the chair, and to his skillful direction is due much of the swing and the snap which pervaded the proceedings. Of course, the secretary, John Hall, is a whole team in himself, and what he takes hold of, goes without question. The attendance of nurserymen from within and without the state was large, among them being Messrs. George and Dayton, of Storrs & Harrison, Painesville, Ohio; Morey and Hartman, of Dansville; Maxwell, Smith and Willard, of Geneva; Josselyn, of Fredonia; I. E. Ilgenfritz, Monroe, Mich.; Stanley H. Watson, Houston, Tex.; Thos. B. Meehan, Dreshertown, Pa.; Emory Albertson, of Bridgeport, Ind.

The attendance of Rochester nurserymen was large, as several of these have been, if not charter members, prominent supporters of the society since its organization. The Hookers, Charltons, Browns, Vicks, with the Barrys and Ellwangers have long taken leading parts in the conduct and councils of this noted society of fruit growers.

THE PROGRAM.

President's address: The address of Mr. W. C. Barry was full of suggestion and interesting fact. He emphasized the value of fruit as an article of diet, and on the commercial side drew attention to the possibilities of vastly increasing the consumption in our home markets. "I think that the consumption of fruit in this country is not nearly so great as it should be. I may err, but it seems to me that there should be a market at home for all the good fruit we produce, and that this condition should prevail for some time to come."

On the matter of packing, Mr. Barry urged the use of smaller packages for superior grades. In closing, he recommended an increase of membership fee from one to two dollars, in order to meet the increasing expenses of the society.

Addresses were presented on the scientific phases of horticulture by Dr. Jordan of the New York Experiment Station, and Dean Bailey, of the Cornell University College of Agriculture. The other papers and addresses were on practical and technical subjects. The plant disease and bug men had their innings, with Messrs. Stewart, Whetzel, Parrot and Slingerland in charge of the proceedings.

THE VARIETY QUESTION.

Willard, of Geneva, says, "let's grow for quantity; the variety that bears every year is the one I want." He named Rome Beauty, Wealthy Duchess, Boiken and Hubbardston as money-makers. Others dissented, and would grow McIntosh, Greening and Baldwin. Mr. Bassett, of Fennville, Mich., gave good advice on growing and marketing peaches. Professor Craig, of Cornell, described, assisted by lantern slides, some of the most successful orchards in western New York.

San José scale promises to be a factor of increasing importance in the business of the nurseryman. Fruit growers do not now feel the confidence which they once had in their ability to control the pest in the mature apple orchards of New York and New England. This may bring about a change of policy on the part of the planters. They may set early bearing varieties with a view of replanting when the trees become too large to protect thoroughly from scale.

THE EXHIBITS.

This is one of the important features of the meeting. The Experiment Station and the College of Agriculture furnished very creditable displays of educational material. The spray pump men were strongly in evidence. E. C. Brown Co., of Rochester; Niagara Gas Sprayer, Middleport, N. Y.; Spramotor Co., Buffalo; Goulds Mfg. Co., Seneca Falls; Friend Mfg. Co., Gasport, N. Y.; Hoag & Hoag, Medina, N. Y., and R. H. Deyo, Binghamton, were prominent by the extent and variety of their exhibits.

OFFICERS ELECTED.

The report of the nominating committee resulted in a re-election of the officers of last year, so the society starts off again under the inspiring leadership of W. C. Barry, President; John Hall, Secretary; assisted by S. D. Willard, Geneva; Albert Wood, Carlton, N. Y.; J. S. Woodward, Lockport; C. M. Hooker, Rochester; Nelson Bogue, Batavia, and other names well known to nurserymen.

SPECIAL FEATURES.

The presence of Mr. Emory Albertson, of the Association of American Nurserymen, was noted by Mr. Barry, and Stanley Watson was not allowed to get away without making his bow and delighting the audience with a message from the "lone star" state, which was delivered with that grace and humor for which Stanley is noted.

MERGER OF TWO LARGE NURSERIES.

Mr. J. S. Kerr, of Sherman, Texas, proprietor Sherman Commercial Nurseries, has merged his business with Texas Nursery Co. Mr. Kerr has for the past thirty years been prominent in southwestern horticulture, and for years secretary and treasurer of Texas Nurserymen's Association. There will be no change in the style of the firm. Mr. Kerr becomes active in the management of Texas Nursery Co., and all interests of Sherman Commercial Nurseries, including orchards, &c., become property of Texas Nursery Co.

John C. Chase, of the firm of Benj. Chase, manufacturer of tree labels, Derry, N. H., attended the Western New York Horticultural Society meeting at Rochester, N. Y., Jan. 24th and 25th. Mr. Chase has many warm friends in Rochester.

C. C. Mayhew, Secretary of the Texas Nursery and Floral Co., Sherman, Texas, called upon Rochester Nurserymen the last days of January.

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WIND BREAK FOR GREENHOUSES.

January 26, 1906.

THE NATIONAL NURSERYMAN:

What tree, planted in a row along windward side of a greenhouse exposed to southwest winds, would best serve as a wind break both winter and summer? Something which will make rapid growth preferred. THE LEEDLE FLORAL CO.

Answer. If a wind break for winter is desired, then an evergreen must be selected. Evidently a rapid grower is desired. If so, there is nothing better than Norway Spruce. The trees may be of such a size that when set three feet apart they will immediately serve as a wind break. Of course they will need heading in occasionally as time goes on to prevent them from cutting off too much light, especially as the guard is to be set on the south and west sides of the greenhouse. A ten-foot hedge will, however, cut off the force of the wind materially, and if set twenty or thirty feet from the glass will not shade it very much. J. C.

The ninth annual session of the Montana Horticultural Society met at Missoula, Montana, January 24th, 25th and 26th. It was the most successful meeting ever held by the Society. The President, C. F. Dallman and Secretary, M. J. Elrod, both of Missoula, Mont., were re-elected.

Ex-President Cleveland, Prof. L. H. Bailey, Elia W. Peattie, Prof. B. T. Galloway and Arthur Stanwood Pier are among the contributors to the February issues of *The Youth's Companion.*

L. L. May & Co., St. Paul, Minn., issue an illustrated catalogue of seeds and nursery stock. It is said to be one of the leading firms in the northwest.

Thoman H. Douglas, of the firm of R. Douglas' Sons is in California for the winter, he writes. He says: have had only two rainy days out of the past twenty-four. "Oh! but how some of the eastern visitors did kick."

WANTED

SEVERAL HUNDRED RED CEDAR, *8, 10, 12 or 15 feet.*

Write at once, giving quantity you can supply, when last transplanted and price.

ALSO AMERICAN AND PYRAMIDAL ARBOR VITAE, Same Size.

THOMAS MEEHAN & SONS, *Inc.,*
DRESHERTOWN, MONTGOMERY CO., PA.

REPORT OF TRANSPORTATION COMMITTEE AMERICAN ASSOCIATION OF NURSERYMEN.

Twenty per cent. Reduction—Important Concession.

In our petition for change in car-load minimum, before the Southern Classification Committee, we are pleased to report as follows: The writer appeared before the committee at Louisville, December 4th, but owing to pressure of other business, and our petition being toward the end of their list, it was not taken up at that meeting. However, Mr. McGovern, chairman, informs me to-day that it was taken up at a later meeting and voted on favorably; thus reducing the minimum from 20,000 to 16,000 pounds on cars 36 feet in length and under, with sliding scale for larger cars similar to the official classification. While this is not exactly what we asked (having asked for the same as Western Classification), however, it amounts to about the same thing. This ruling goes into effect January 20th, as per supplement No. 1 of Southern Classification.

This means a saving of 20 per cent. in freight on carload shipments, and will make a difference of $14.00 per car from Ohio river points to New Orleans.

The Western Classification, as per our previous report, applies to the southwestern territory, having been adopted by the Southwestern Tariff Committee, and going into effect December 8th.

I also find that the Trans-Continental Committee accepts the western schedule to Pacific coast points.

With these changes, I believe about all the work that the Trans-Continental Committee has in hand has been cleaned up, and we hope to issue a circular before packing season opens showing all the recent changes, so that all nurserymen can take advantage of them.

W. C. REED,
Chairman Transportation Committee,
American Association of Nurserymen,

CIRCULAR LETTER.

The committee will send a circular letter, giving in condensed form the results of the Transportation Committee's efforts during the year. This will give schedules of the various classification associations; it will also draw attention to the benefits of membership in the American association. All persons who do not receive this may do so by applying to President Albertson, Bridgeport, Ind., or Chairman W. C. Reed, Vincennes, Ind. EDITOR.

AMERICAN CARNATION SOCIETY.

FINE EXHIBIT—LARGE ATTENDANCE—STRONG PAPERS.

The meeting was a record-breaker in many respects, the quality of flowers staged being the best in the history of the society, while in size of exhibit it was equal to any show that has preceded it. The attendance was very large, the hall being crowded with interested spectators during both days of the show.

The unusual quality and large numbers of new seedlings was the feature of the meeting. The program was as follows:

Address of welcome by Mayor Fitzgerald.

Response by E. G. Hill.

Address by the President of the society, Peter Fisher, of Ellis, Mass.

Paper—Carnation Breeding, by Prof. H. F. Hall, N. H. College, Durham, N H.

Paper—The Carnation from the Retailers' Standpoint, Thomas F. Galvin, Boston.

Paper—Carnations in the Rocky Mountains, J. A. Valentine, Denver, Col.

Paper—Carnations from a Wholesaler's Point of View, A. J. Guttman, New York.

A very fine exhibit of sweet peas was staged by William Sims, of Cliftondale, Mass. Violets were shown by William Sims and H. R. Carleton, of Willoughby, O. The latter showing the new variety, Governor Herrick, which was much admired.

The principal prizes were awarded as follows:

Lawson Gold Medal, won by Cottage Garden Co., with Elsa Struss.

Lawson Silver Medal, won by F. R. Pierson Co., with Winsor.

Lawson Bronze Medal, won by Cottage Garden Co., with Robert Craig.

S. A. F. Silver Medal, won by Cottage Garden Co., with Mrs. C. W. Ward.

S. A. F. Bronze Medal, won by Cottage Garden Co., with Robert Craig.

S. A. F. Bronze Medal, won by Peter Fisher, with Beacon.

The A. H. Hewes Silver Cup, won by William Nicholson.

The W. W. Rawson Silver Cup, won by William Nicholson.

The R. & J. Farquhar Silver Cup, won by W. Kleinheinz.

The Thos. F. Galvin Silver Cup, won by Peter Fisher.

It was voted to hold the next annual meeting and exhibition at Toronto, Ont., Can.

The following officers were elected: President, John H. Dunlop, of Toronto, Ont.; Vice President, W. J. Palmer, of Buffalo, N. Y.; Secretary, Albert M. Herr; Treasurer, F. E. Dorner, Jr., Director for five years, Eugene Daelledouze; Judge for three years, William Scott.

A banquet was given at the Copley Square Hotel Thursday evening by the Gardeners' and Florists' Club.

Durham, N. H. H. F. HALL.

C. R. Burr, Proprietor of the Oakland Nurseries, Manchester, Conn., called on Rochester and Geneva Nurserymen the last day of January. Mr. Burr is a wide-awake and up-to-date Nurseryman. He is looking for a good man to take charge of his Nursery.

Dansville, N. Y.—On the night of January 14th the nursery cold storage plant of John Morey & Sons with all its contents was destroyed by fire. Loss about $4,000.00, partially covered by insurance. The origin of the fire is a mystery.

SURPLUS

TWO HUNDRED THOUSAND PEACH

Largely 7-16 to 9-16, 4 to 5 ft. and 9-16 to 11-16, 5 to 7 ft. One year trees. Elegant stock, clean and fresh, still in ground. Can make early shipment.

Very Low Prices on Assorted Lots in Car Loads.

WRITE

TEXAS NURSERY CO,
Sherman, Tex.

PEACH SEED.

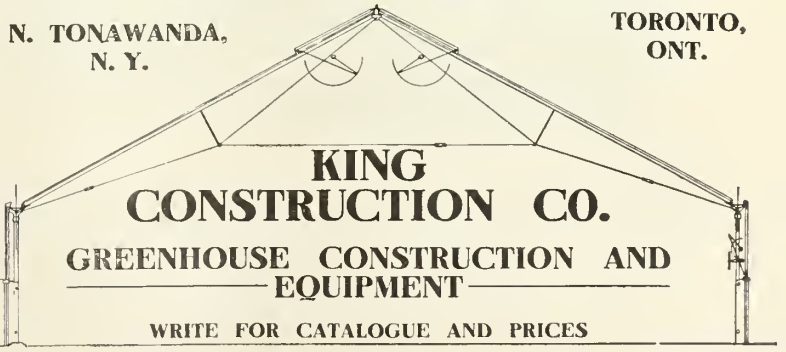
We have still a few Virginia Natural Seed on hand. 200 bushels Smock and 500 bushels Choice Mixed at a sacrifice on account of removal. Liberal discount on quantities and cash.

Samples and prices on request.

P. O. BOX, 451. C. & P. PHONE, SOUTH, 1308.

W. W. WITTMAN & CO., 117 Hanover Street, Baltimore, Md.

N. TONAWANDA, N. Y. TORONTO, ONT.



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GREENHOUSE CONSTRUCTION AND EQUIPMENT

WRITE FOR CATALOGUE AND PRICES

WINFIELD NURSERIES

MAHALEB AND FOREST TREE SEEDLINGS. . .

PEACH, BUDDED APPLE AND FINE SHADE TREES IN CARLOAD LOTS.

FOR SPRING and FALL 1906.

COOPER & MONCRIEF, Proprietors.
WINFIELD, KANSAS.

The Fraser Nursery

JOHN FRASER, Prop.
HUNTSVILLE, ALABAMA.

OFFER FOR IMMEDIATE OR LATER SHIPMENT

All Grades of CHERRY, 2 years. PEAR, Standard, 1 and 2 years. PEACH and PLUM, 1 year. MULBERRY, 1 year. PECAN SEEDLINGS and GRAFTED. CALIFORNIA PRIVET, 1 and 2 years. DWARF BOX, 1 year. AMPELOPSIS VEITCHII, 1 and 2 years. CRIMSON RAMBLER, BALT. BELLE, QUEEN OF PRAIRIE and MAD. PLANTIER ROSES, own roots, 1 year.

WRITE FOR PRICE LIST

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.
MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,
213-223 Pearl Street, NORRISTOWN, PA.

A well established retail Nursery business for sale. Proprietor intends retiring. Address,

NURSERYMAN,
KALAMAZOO, MICH.

Charles Detriché, Senior

ANGERS, FRANCE.

GROWERS AND EXPORTERS OF FRUIT TREE STOCKS FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc.
Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.
Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs, Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

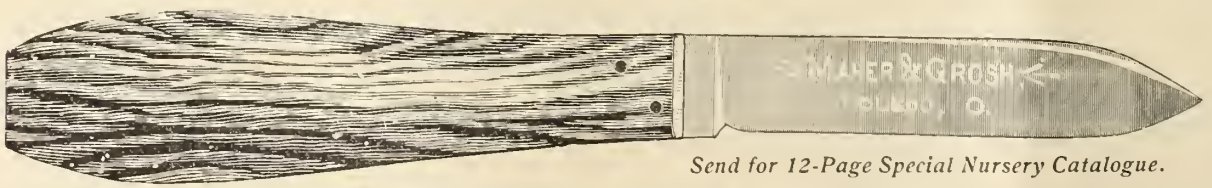
The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

GINSENG

is a money making crop. Room in your garden to grow hundreds of dollars worth annually. Thrives throughout the U. S. and Canada. We sell roots and seed during spring and fall planting seasons and buy the dried product. You can get started in this profitable business for a small outlay. Send 2c stamp to-day for illustrated literature telling all about it.

THE ST. LOUIS GINSENG CO., St. Louis, Mo.



Send for 12-Page Special Nursery Catalogue.

GRAFTING KNIFE NO. 2.

20 cts.

A WITNESS: LOUIS KUNDE, of California, writes us Feb. 3, 1905. "Your knives are better than any other grafting knives, and do better work than those I pay $1.00 for here. I recommend them to my neighbors, and whenever they see one they want it of me."

Cut is exact size of our Grafting Knife No. 2. Sample by mail 20c. 6 for $1.00. No. 1 has a "sheep foot" blade and is larger. Sample by mail, 25c. 5 for $1.00. Budding Knife, riveted in handle, 25c. 12 for $2 25, postpaid. Pocket Budder, 35c. Pruning Knife, riveted in handle, 50c. 5 for $2.00, postpaid. Pocket Pruner, 75c. **Our New Propagating Knife,** white handle, straight cutting edge, price 50c. You have been paying 75c. for a much inferior knife. We hope you will try us.

L. B. PEASE, of Lockport, writes us Apr. 7: "I never had a knife to use like those I got of you and my men are well pleased with them too. I have tried several brands but could not get a good blade until those you sent us. Send me two more propagating knives."

MAHER & GROSH CO., 90 A Street, TOLEDO, OHIO.

YOU SHOULD HAVE THIS PLANTING LIST

If you grow ornamental stock do not fail to get our special list "Young Ornamentals" This year it is more valuable *to you* than usual because it contains in addition to the large assortment of popular varieties, much stock that cannot be bought elsewhere—stock which we would not offer now if we had room to transplant it.

Remember This is not an ordinary, common-place offer. It is *your* opportunity to secure some rare stock—an opportunity *for you* to reap the benefit of our foresight. Write us to-day.

MEEHANS' SPRING TRADE-LIST JUST OUT

All nurserymen should have it. Why? Because

First. It's the index to 300 acres of Hardy Ornamentals exclusively—no fruits nor tender plants.

Second. It lists an assortment difficult to surpass; an assortment that comprises seedling stock suitable for lining out to large transplanted specimens

Third (*And this is the most important point.*) It represents stock of the highest grade. Quality first, last and all times with us *You* should insist upon it too. It pays. Shall we send you a copy of this catalog?

P. S. Judging from the weather we are experiencing, the frost will leave the ground early this season. Order early.

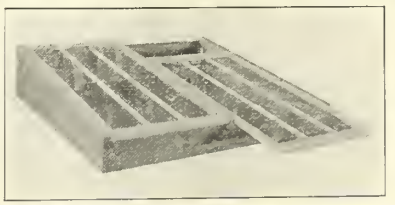
Thomas Meehan & Sons, Inc.
WHOLESALE NURSERYMEN,
Dreshertown, Nursery St., Pa.

What You Want

is a thoroughly practicable, durable, easy to handle sash for your cold frames—the kind made of Cypress, securely tenoned, steel doweled pinned, and bound and stiffened through the center with a round iron bar. Now this is our kind of sash. Yes, they do cost a little more—but, 20 years from now, you'll see how cheap they really were

Send them unglazed if you rather.

BURNHAM-HITCHINGS-PIERSON COMPANY,
GREENHOUSE DESIGNERS and MANUFACTURERS.
1133 BROADWAY COR. 26TH ST., N. Y.
Boston Branch: 819 Tremont Bldg.



Apple, Cherry, Peach, Plum and Kieffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded. None better.

Osage, Russian Mulberry and **Soft Maple Seedling.**

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

Shade Trees

Elm, Soft Maple, Box Elder, Weir's C. L. Maple.
GRAPE VINES, FLOWERING SHRUBS.
APPLE GRAFTS. All styles made to order.

PETERS & SKINNER
CAPITAL NURSERIES
NORTH TOPEKA, KANS.

THE HAWKEYE TREE PROTECTORS

Have Become A Necessity to Every Fruit Grower

They will protect the young trees against rabbits, mice and other vermin at a trifling cost per tree.

They are easily attached and with any care at all will last until the tree requires no further protection.

They are a good thing and it is to the interest of every nurseryman to push these.

We will make you our wholesale price and will ship your orders direct to your customers.

You can sell them at a profit at no expense whatever to you.

We make Veneer wrappers for Strawberry and other plants WRITE US TO DAY.

BURLINGTON BASKET CO.
Box 1260. = = = BURLINGTON, IOWA.

SURPLUS

Apples, Japan Plums and Keiffer Pears in extra size, first-class, 5/8 to 3/4 and 1/2 to 5/8 grades.

Conovers, Barr's Mammoth and Palmetto Asparagus, 2 year.

Oriental Plants, Catalpa Speciosa, American Elms, Norway and Silver Maples, Mossy Cup, Pin, English, Red and Scarlet Oaks, Prunus Pissardi, California Privet, Berberis Thunbergii and Spiria Van Houtii.

American Arborbitae and Norway Spruce.

Rakestraw & Pyle
Kennett Square, Pa.

When writing to Advertisers mention The National Nurseryman.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

SURPLUS

APPLE, PEAR, PLUM, PEACH,

Catalpa, Silver Maple, Poplar,
Box Alder,

6-8 ft., 8-10 ft. and 10-12 ft.

Black Locust and Catalpa Speciosa Seedlings,

12-18, 18-24 and 24-36 inch.

We have in cellar a general line of nursery stock and will be pleased to quote prices on your list of wants.

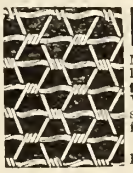
J. K. HENBY & SON, Greenfield, Ind.

Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted. Can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.



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Made of **High Carbon** coiled wire. We have no **agents.** Sell direct to user at **factory prices on 30 days free trial.** We pay **all freight.** Catalog shows 37 styles and heights of farm and poultry fence. **It's free.** Buy direct. Write today

Box **COILED SPRING FENCE CO.** **WINCHESTER, INDIANA.**

Choice Nursery Stock

FOR SALE

15,000 APPLE TREES, 5-8 to 3-4, for sale cheap.
100,000 CALIFORNIA PRIVET, from 1 to 3 ft.
10,000 HYDRANGEA PANICULATA, both bush and tree form. Also a large stock of FOREST TREES, WHITE, AUSTRIAN AND SCOTCH PINE OF ALL SIZES. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

WE offer to the trade for spring shipment the following list of stock. Our own growing, clean, smooth and well furnished.

APPLES,
Northern Sorts. 90,000 5-7 and 4-6 feet.

PLUM,
On Native Plum. A good supply in all grades.

CHERRY,
Not Many, But Good.

EVERGREENS,
30,000 best varieties.

ORNAMENTAL,
Shrubs and Trees. Complete Assortment.

FOREST TREE SEEDLINGS,
Box Elder, Maple, Elm, Ash, etc.

ROSES,
Field Grown. Own Roots and Buds.

Please submit List. Right Prices.

Car Lots a Specialty.

C. G. PATTEN & SON,

CHARLES CITY, IOWA.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

BLACKBERRY ROOT CUTTING PLANTS

Largest and best stock in the country. Our Blackberry plants have the same mass of fibrous roots as our grape vines.

One year plants for late fall and spring shipment. Send lists of wants for lowest prices.

T. S. HUBBARD CO., Fredonia, N. Y.

COTTON BELT ROUTE

TEXAS

The Cotton Belt Route has a through direct line between St. Louis and Texas points—Dallas, Ft. Worth, Waco, etc. Through sleeper and chair car service. Vestibuled trains leave St. Louis morning and evening for Texas and the southwest.

Write for folder, map, etc.

E. W. La Beaume G. P. & T. A.
Cotton Belt, St. Louis, Mo.

The L. Green & Son Co.

Western Reserve Nurseries,

PERRY LAKE CO., OHIO,

carry a most complete line of the wants of the trade, including a fine assortment of Roses of all kinds, Maples, Silver, Norway, Ash Leaf and Weir's Cut Leaf, Elms, Catalpas, Mt. Ash, European, Cut Leaf Weeping Birch, Magnolias, Double Lilacs, tree form, and Snow Ball tree form, Clematis, Hydrangea, tree and bush form, American Sweet Chestnuts, Car. Poplars, Currants, Grapes, Rhubarb, a general good assortment of shrubs of nearly all kinds and sizes.

Evergreens, Arbor Vitæ, Siberian, Pyramidalis and Tom Thumb, Pines, Austrian, Scotch and White, Norway Spruce, etc., etc. All Evergreens two and three times transplanted and very fine.

Native Plums one and two years in the three grades.

We also have an elegant line of Perennial Plants in a full assortment of varieties, consisting of the newest and most popular sorts, on which we are able to make special inducements for early orders.

Correspondence solicited and inspection invited.

LARGEST GROWER IN AMERICA OF

GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

INTRODUCER OF CAMPBELL'S EARLY GRAPE, JOSSELYN GOOSEBERRY, FAY CURRANT. . . . . .

OVER A QUARTER OF A CENTURY WITH NO CHANGE WHATEVER IN OWNERSHIP OR MANAGEMENT.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

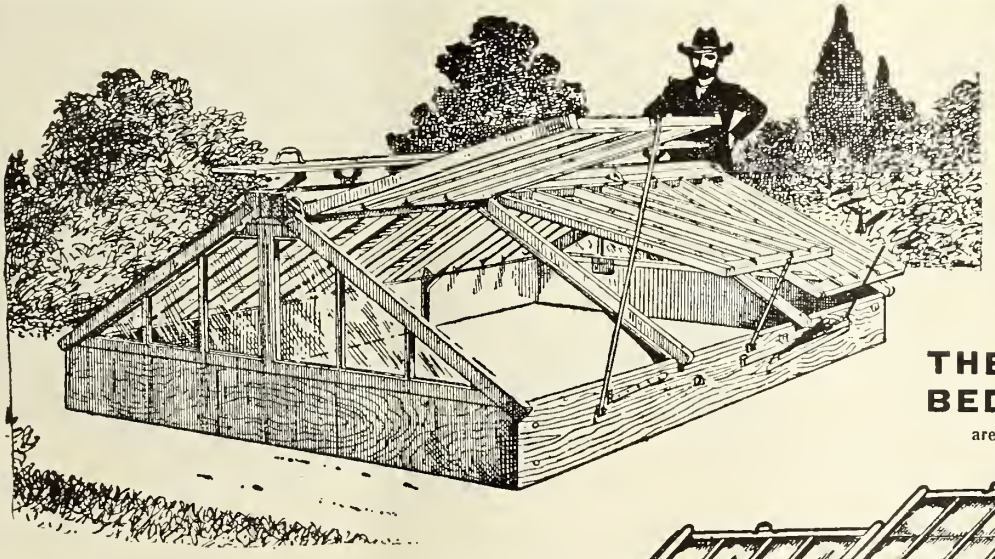
Our stock this season has made very heavy growth and we have ordered extra boxing to meet this necessity. Box and packing free.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

GEORGE S. JOSSELYN,

FREDONIA, NEW YORK.



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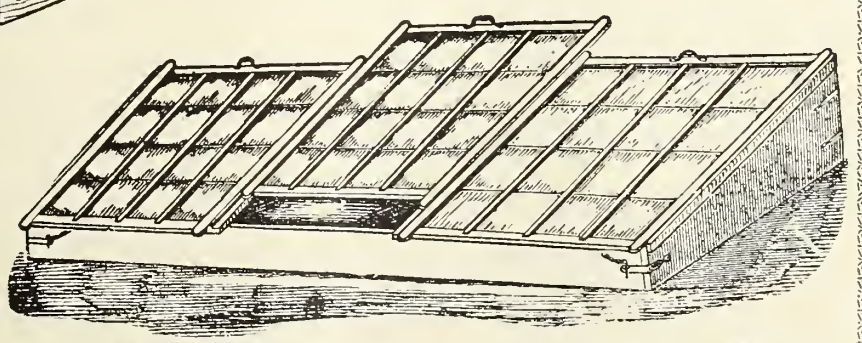
This is one of the most useful small structures possible for the Fruit Grower and Gardener. Can be used for a variety of purposes.

Prices on application.

THE PREMIER HOT BED SASH AND FRAMES

are Inexpensive, Durable and Effective.



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FOR COMMERCIAL OR AMATEUR PURPOSES.

Are portable, soundly built of excellent material and the prices range from $20 to $2,000. Catalogs on application.

C. H. MANLEY, Dept. N. N., PREMIER MFG. WORKS, ST. JOHNS, MICH.

NURSERY FOR SALE

In one of the finest NURSERY and FRUIT GROWING SECTIONS in the UNITED STATES.

Owing to ill health of one of the proprietors the entire stock will be *Sold at a Sacrifice.*

Large Staff of Traveling Salesmen.

Well organized office and field forces. **Good mail order and wholesale trade.**

The good will of the business and staff of salesmen, worth several thousand dollars to any purchaser, will be given free to party purchasing the entire stock.

No finer land or climate for growing stock can be found. Write quick as this is a chance of a lifetime.

Address, **A SNAP** care National Nurseryman.

XENIA
STAR NURSERIES
XENIA, OHIO.

SPECIAL PRICES

Will be made on early inquiries for any of the following items of superior stock. Assortment List will be mailed with quotations.

	No. 1 ¾ in. and up.	Medium ⅝ to ¾ in.	No. 3 ½ to ⅝ in.	Cheap List 2 to 3 ft.
Apples, - -	20,000	14,000	10,000	——
Crabs, - -	1,000	500	800	——
St. Pear, - -	5,000	2,000	2,500	1,200
St. Kieffer, - -	2,500	——	——	390
St. Kieffer, 1 in. up,	(1,700)	——	——	——
Dwf. Pear, - -	2,100	1,100	2,200	1,110
Cherry, - -	4,790	5,230	6,280	6,550
Plums, - -	2,840	1,510	3,470	540
	9-16 and up.	7-16 to 9-16	5-16 to 7-16	
Peach, - -	15,280	2,023	1,350	450

Apple Seedlings, 50,000 Western Grown, straight 3-16 inch and up.
Mahaleb Seedlings, 25,000 Imported No. 1.
Opalescent Cions, now offered for the first time.
Opalescent Trees, prices reduced for spring, 1906.

McNARY & GAINES.

NURSERY BUSINESS FOR SALE.

A No. 1 location with good local trade. Farm, implements, and all can be bought at a reasonable price. Reason for selling given when writing particulars. Address,

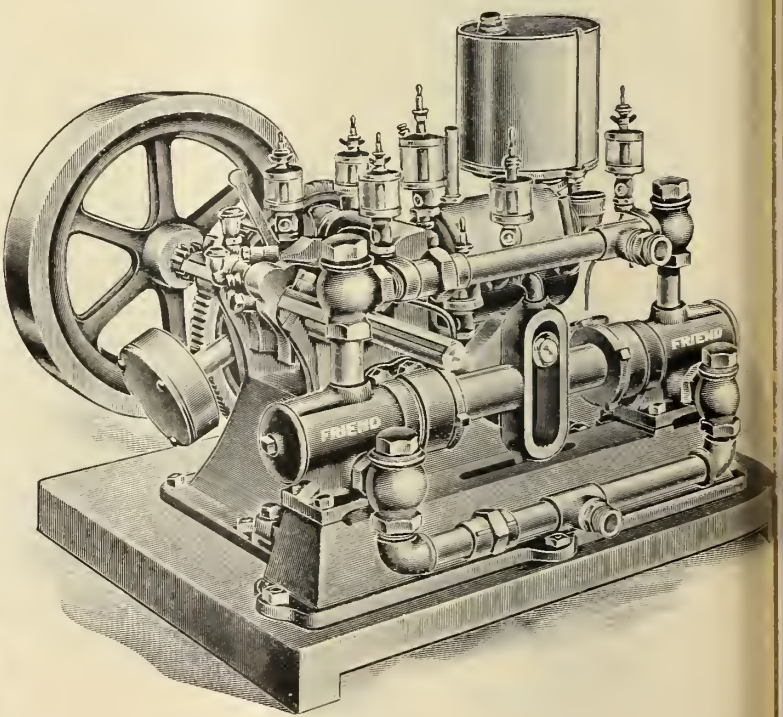
K., care The National Nurseryman, Rochester, New York

When writing to Advertisers mention The National Nurseryman.

LOOK AT THIS, THE GREATEST

GASOLINE POWER SPRAYER

IN THE WORLD. WRITE FOR CATALOG.



The man who tells you that his pump is just as good as the "Friend" may be honest, but he does not know.

"FRIEND" MFG. CO., Gasport, N. Y., U. S. A.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

When writing to Advertisers mention The National Nurseryman.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
60 CORTLANDT ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

NORTH CAROLINA
NATURAL PEACH PITS

Now ready for delivery. These seeds are in great demand and you should ORDER AT ONCE.

ADDRESS

JOHN A. YOUNG, *Greensboro, N. C.*

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING, 1906

One of the most complete lines of

Fruit, Shade and Ornamental Trees, Roses, Shrubs and Perennials

to be found South of the Ohio River.

Seedlings we have in large quantities, including Oaks, Gums, Chestnuts, Cypress, Tulips, Magnolias, Elms, Mulberries, Black Locust and Catalpa Speciosa.

WE ARE HEADQUARTERS FOR CATALPA SPECIOSA, AND BLACK LOCUST SEEDLINGS,

having grown in 1905 over Sixteen Million Seedlings of Locust and Catalpa alone by actual count.

Send us your list of wants to price.

Spring trade-list will be ready in February; send for it.

THE DONALDSON CO., Warsaw, Kentucky.

Hybrid Perpetuals, Hybrid Teas, Teas, etc.

Send Your Want List.

TO LINE OUT this spring, buy

ROSES

truly labeled by expert growers, packers and shippers.

Get Our Price List.

Baby and Other Ramblers, Climbers, etc.

On own roots.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO.

2½ inch pots.

——1869—— APPLE TREES. ——1906——

NO FINER, NONE BETTER, ¾ and up, ⅝ to ¾. AT A PRICE.

These are HIGH LAND TREES, and are sound to the heart. Free from aphis or root knot.

We offer a general line of Peach, Cherry and Ornamentals.

Ask NOW for quotations, and get as good a tree as can be grown.

Mount Hope Nurseries, Lawrence, Kansas.

A. C. GRIESA, Proprietor.

F. E. SCHIFFERLI

FREDONIA, N. Y.

Grape Vines and Currants.

I offer for sale of 1906 an immense stock and complete assortment. A particularly fine stock of Extra Heavy two and three year vines for

NURSERYMEN'S RETAIL TRADE.

Also a light grade of vines for lining out in nursery rows. I guarantee careful grading and prompt shipment.

Grape and current cuttings quoted upon receipt of amount and varieties wanted, which should be ordered early.

Correspond before placing your order.

100,000 Kansas, Cumberland, Nunger, Miller Red Raspberry plants, one million of all Standard varieties of Strawberry at low wholesale price.

Send for Surplus List.

CARSON BROTHERS, Middleport, Ohio.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.

Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

Special Rates on the Following:

ASH,
EUP. WHITE BIRCH,
CUT-LEAF WEEPING BIRCH,
CATALPA,
HACKBERRY,
SILVER MAPLE,
MT. ASH,
CAROLINA SILVER and
LOMBARDY POPLAR.

Complete Line of
EVERGREENS,
SHRUBS,
VINES,
ROSES,
SMALL FRUITS,
PERENNIALS, ETC.

Mayfield Nurseries

"MOST NORTHERN IN AMERICA"

We offer a Complete Assortment of Stock Grown and Acclimated to the

NORTH-WEST

Special Attention given to Packing Dealers and supplying Wholesale Trade.

HARDY APPLE, CHERRY, PLUM

Largest Stock of
HARDY ORNAMENTALS
In North-West.

Write to-day for Catalogue, Wholesale and Retail.
Also Submit List of Wants.

L. L. MAY & CO., ST. PAUL, MINN.
WHOLESALE DEPARTMENT.

About the South

"About the South" is the name of a 64-page illustrated pamphlet issued by the Passenger Department of the

ILLINOIS CENTRAL R. R. CO.

in which important questions are tersely answered in brief articles about

Southern Farm Lands,
Mississippi Valley Cotton Lands,
Truck Farming, Fruit Growing,
Stock Raising, Dairying,
Grasses and Forage, Soils,
Market Facilities
and Southern Immigration

along the lines of the Illinois Central and Yazoo and Mississippi Valley railroads, in the States of Kentucky, Tennessee, Mississippi and Louisiana, including the famous

YAZOO VALLEY
of Mississippi.

Send for a free copy to J. F. Merry, General Emigration Agent I. C. Railroad, Manchester, Iowa.

Information concerning rates and train service to the South via the Illinois Central can be had of agents of connecting lines, or by addressing.

S. G. HATCH, G. P. A., Chicago, Ill.

WILLIS NURSERIES

OTTAWA, KANSAS

OFFERS FOR SPRING OF 1906

Apple, Peach, Pear, Plum,
Cherry, Concord Grapes,
Blackberries, Raspberries,
Hedge, Forest Tree Seedlings, Roses, Apple Seedlings : : : : : : : : :

Stock is Strictly Choice in Every Way We Solicit Your Orders and will make Favorable Prices

A. WILLIS, - - Proprietor

Do you want to get some Choice Fruit Stocks and Seeds Cheaply?

Before Spring work is upon us we must dispose of our remaining stock and that it may be done *quickly*, prices have been reduced to such attractive figures that you simply cannot get better values for the money and you may hunt long for their equal.

Here's what we have. Make up your list and when writing for a special price, please refer to this offer.

STOCKS.	SEEDS.
APPLE, 2 to 3-16 in.	FRENCH CRAB Scarce—a few bushels only.
" 3-16 and up.	KIEFFER PEAR. Only a small quantity left.
PARADISE, First Grade.	FRENCH PEAR.
FRENCH PEAR, 6 to 10 mm. and 5 to 6 mm.	MYROBOLAN PLUM. About 3 bushels left.
MAZZARD CHERRY, 6 to 12 mm.	QUINCE.
MAHALEB CHERRY, 3 to 4 mm.	MAHALEB CHERRY.
MYROBOLAN PLUM, 3 to 5 mm.	
QUINCE, 7 to 12 mm.	

MANETTI ROSE STOCKS—Medium and 5 to 10 mm.

If you can use anything in this list a bargain awaits you. It is to *your* advantage to write *to-day*.

Thomas Meehan & Sons, Inc., Nurserymen,
Nursery Street, Dreshertown, Penna.

Wood Labels

OF EVERY DESCRIPTION,
both plain and printed
for Nurserymen and Florists

Prices and Samples Cheerfully Given.

Dayton Fruit Tree Label Co.

South Canal St., Dayton, Ohio.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.

Write direct to us, we have no agents.

WEATHER-PROOF

SHIPPING-TAGS

and

Paper Tree Labels

FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

Snow Hill Nurseries

OFFER FOR SPRING, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KEIFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES 30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moores, Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. **W. M. Peters' Sons** Telegraph Office: Western Union, Berlin, Md.

Post Office: SNOW HILL, MD.

Nurseryman Wanted

Competent and willing, must understand the business thoroughly, and come well recommended. Good wages.

HURON NURSERY COMPANY, Huron, S. D.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent,

Louisville & Nashville R. R.

LOUISVILLE, KY.

WANTED.

Situation as Foreman on Nursery growing hardy ornamentals. Life experience in propagation and care of fruits, ornamentals, shrubbery, etc. Capable of handling large force of men. Varied experience on large nurseries. Best references.

FOREMAN, Care National Nurseryman.

SPECIAL OFFER

AT REDUCED PRICES OF GOOD, WELL-SHAPED TREES PREPARED FOR SPRING SHIPMENT. ALL HAVE BEEN TRANSPLANTED AND CAN BE LIFTED WITH GOOD BALLS OF EARTH.

CONIFERAE.

Abies excelsa aurea,	8 to 10	feet	
" " argentea, beautiful silvery color,	12 to 14	"	
" " cœrulea,	4½ to 6	"	
" " "	7 to 10	"	
" Engelmanni glauca,	3½ to 4½	"	
" Balsamea,	5 to 6	"	
" Nordmaniana,	5 to 7	"	
" Nigra Doumetti, (large)	2½ to 3	"	
" Parryana Glauca,	3 to 4½	"	
" Pinsapo,	3 to 4	"	
" "	5 to 6	"	
" Remonti,	4 to 5	"	
Biota (Thuja) compacta,	2½ to 3	"	
" " Elwangeriana,	5 to 7	"	
" " Lobbii variegata aurea,	6 to 8	"	
" " " Gigantea,	6 to 7	"	
" " " "	8 to 10	"	
" " " Atrovirens,	5 to 6	"	
" " " "	7 to 9	"	
" " occidentalis pyramidalis compacta,	6 to 8	"	

Biota (Thuja) occidentalis variegata alba (new), *(The Best Novelty of these late years.)*	4 to 5	feet	
" " Warreana,	4 to 5½	"	
Cedrus Atlantica and Libani,	4 to 5½	"	
Cephalotaxus Fortunei and Drupacea,	3½ to 4½	"	
Cupressus Lawsoniana,	3½ to 5	"	
Juniperus Sinensis variegata,	3 to 4	"	
" (Cedrus) Virginiana,	4½ to 6	"	
Pinus Austriaca,	7	"	
" "	8 to 10	"	
Retinospora ericoides (fine),	1 to 1½	"	
Taxus baccata (English Yew),	3 to 3½	"	
" " " "	4 to 5	"	
" erecta,	5 to 6	"	
" hybernica pyramidalis,	3½ to 4	"	
" " "	5 to 6	"	
Thuyopsis borealis dolabrata variegata,	4 to 6	"	
" " pendula,	5 to 6	"	
" " variegata alba,	3 to 4	"	
" " viridis and glauca,	6 to 8	"	

We have many other varieties in stock, please ask for special list.

EVERGREEN SHRUBS.

Most of the following are grown in pots, or can be delivered with good balls. They are well furnished.

Androsœmum officinalis,	2	feet	
Berberis Neuberti ou Mahonia illicifolia,	2½ to 3	"	
" Stenophylla,	3 to 5	"	
Cotoneaster Hookeri,	4 to 5	"	
Hollies variegatis,	2 to 2½	"	
Ligustrum Japonicum and others,	2½ to 4	"	

Mahonia Fascicularis,	2 to 3	feet	
" rotundifolia,	1½ to 2	"	
Ribes chiliensis,	1 to 2	"	

Filaria, Rhamnus alaternus, Berberis, Portugal Laurels, Genista Andreana all the Laurels and Ligustrum, etc.

For all other varieties in stock, please ask for special list.

For **CLIMBING PLANTS** ask for special list.

ORNAMENTAL SHRUBS in 150 varieties. Bushy, strong—from 2 to 5 feet, well formed—our selection.

DWARF ROSES Field grown; budded on briar stock. Fine stuff. 150 varieties, our selection. List and prices on demand.

FINE STANDARD ROSES Our selection.

STANDARDS OF ORNAMENTAL TREES.

Very large stock. Please ask for special list.

All above goods delivered **Free to Havre**, packing carefully done and charged at cost price. We know how to pack safely and economically and can give the highest American references.

We have many other good articles at advantageous prices. Please ask for catalogue.

LETELLIER SON & CO.,

CAEN, CALVADOS, FRANCE.

Easterly Nursery Co.,

CLEVELAND, TENN.

Offer for Spring of 1906—

One Year Peach, One and Two Year Apples,
One Year Cherry, Two Year Pecans.

WRITE FOR PRICES.

When writing to Advertisers mention The National Nurseryman.

WANTED

PACKING FOREMAN; experienced man, sober and industrious, as foreman in retail Nursery Packing Department; steady employment with advancement for right man. State the extent of your experience, qualifications, age and salary desired. Reference required.

THOMAS MEEHAN & SONS, Inc., Retail Department,
GERMANTOWN, PHILADELPHIA, PA.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

SPRING AND FALL, 1906,

For nursery stocks, of their own growing, grading and packing. For quotations apply to

ANDRE L. CAUSSE, Sole Agent,

105-107 HUDSON ST., NEW YORK CITY.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

OFFER FOR SPRING AND FALL 1906

SPECIALTIES:

PEACH—Grown from North Carolina and Tennessee Natural Pits—large assortment—carload lots.

CALIFORNIA PRIVET—Extra fine—one and two year.

NATURAL PEACH PIT—Crop 1905, and **general line of Shrubbery and Ornamental Stock.**

NOTE: Our stock is now being grown on new land in Hanover Co., about 20 miles from Richmond. No nursery stock has heretofore been planted on or near this place; it is also isolated from old orchards and we can promise our patrons an exceptionally fine lot of stock. Correspondence solicited.

VERMONT APPLE SEED

produces the healthiest seedlings, most perfect stands. A few bushels unsold.

APPLE SEEDLINGS from Vermont seed
ROOT GRAFTS, all leading sorts
GRAPE VINES, New York grown
MAHALEB CHERRY SEEDLINGS
MYROBOLAN PLUM SEEDLINGS
NATIVE PLUM SEEDLINGS
JAPAN & FRENCH PEAR SEEDLINGS
QUINCE STOCKS
CAROLINA POPLAR
APPLE SCIONS, extra fine, leading sorts
STARK TREE DIGGER—THE BEST
A Complete Line of General Nursery Stock

STARK BRO'S NURSERIES & ORCHARDS CO Louisiana, Mo.

When writing to Advertisers mention The National Nurseryman.

We are the largest growers on the Pacific Coast of

Fruit Trees, Grape Vines, Citrus Trees.

Give us an opportunity to figure with you on Cherries, Texas Umbrellas, Poplars, Walnut Trees grafted and on their own roots, Field Grown Roses and Ornamentals.

Correspondence Solicited.

Address FANCHER CREEK NURSERIES, Inc.,
GEO. C. ROEDING, President and Manager.
Box 75. FRESNO, CALIFORNIA.

Vincennes Nurseries

W. C. REED, VINCENNES, IND.

APPLE—Fine lot of Ben Davis and general assortment; 40 varieties all grades.

PEACH—Splendid assortment. Long on Elberta. Grades run largely medium, 3 to 4 and 2 to 3 feet.

PLUM—Japan, New Hybrid and Wild Goose.

CHERRY—1 and 2 years. Fine stock.

SHADE TREES—Ash, Elm, Box Elder and Balm Gilead. Also nice line of Pear, Roses, Shrubs, etc.

BRANCHED ROOT
Apple Seedlings

We have a very fine lot—about 500,000—of ¼ in. branched root Apple Seedlings. They have been grown on new land and will be graded strong. They are clean—have good color—and are strictly select in every way.

We will make very close prices

F. W. Watson & Co.

TOPEKA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Spring of 1906, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1904 and Spring of 1905 counted up 270,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, ASSORTED, STANDARD—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees
and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST
AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

FAIRMOUNT NURSERIES

TROY, OHIO.

CALL ATTENTION TO AN EXTRA FINE LINE OF

Apple, Peach, Standard and Dwarf Pear, Cherry, Plum, Currants, Quince and Grapes, Ornamental Trees, Shrubs and Vines. Also our usual supply of Apple, Pear, Cherry and Plum Seedling.

APPLE SEEDLINGS.

WE OFFER THE FOLLOWING.

No. 1, 3-16 in. and up straight.
No. 2, 2 to 3-16, straight.
No. 3, 2-16, nothing under.

Also Grafters. Boxing at cost.

Write and get our prices.

WRITE US FOR OUR WHOLESALE LIST.
LET US FIGURE WITH YOU ON YOUR WANT LIST.

The Geo. Peters Nursery Co.

WABASH R. R.

offers unexcelled service
to the

WEST

FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

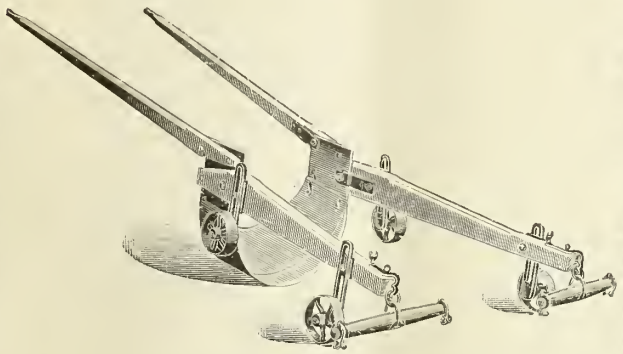
JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention The National Nurseryman.

1857 **L. G. BRAGG & CO.** 1906

Growers of No. 1 Nursery Stock, also manufacturers of Bragg's Common Sense Tree Digger and Jumbo Cultivator. The Jumbo does fine work from start to finish. The operator rides over the tops of 3 and 4 year trees and the



Digger gets all of the roots at the rate of 20 to 40 thousand trees per day.

L. G. BRAGG & CO.,

KALAMAZOO, MICHIGAN.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS.

Have for sale a large and complete assortment of Nursery Stock, strong on

APPLE, CHERRY, PEAR, PLUM, PEACH, APRICOTS, FOREST TREE SEEDLINGS, APPLE SCIONS.

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs.

A Southern Location

FOR YOUR HOME, YOUR MANUFACTURING PLANT OR YOUR BUSINESS.

Farms in Virginia, North and South Carolina, Georgia, Alabama, Mississippi, Kentucky and Tennessee.

Nurseries and Fruit Farms Succeed in the South

All conditions are favorable. There are fine Markets, Good Locations, Low Cost of Labor and Splendid Distributing Facilities.

Good Lands at Low Prices.

A HEALTHY CLIMATE, LONG GROWING SEASONS, AND AN ALL-THE-YEAR WORKING SEASON.

The South is now making greater progress than any other Section. If you would learn about its developments, and the opportunities for good locations along the Southern Railway, write for copies of our publications, which will be sent free on request.

M. V. RICHARDS,

LAND AND INDUSTRIAL AGENT,

SOUTHERN RAILWAY, WASHINGTON, D. C.

When writing to Advertisers mention The National Nurseryman.

DREER'S SPECIALTIES.

Hardy Perennial Plants

All the standard and leading varieties in immense quantities, of a size and quality to give best results to planters.

Aconites	Asters
Anemone Japonica	Campanulas
Aquilegias	Corcopsis
Delphiniums	Digitalis
Doronicum	Funkias
Gaillardias	Heleniums
Helianthus	Heliopsis
Hemerocalis	Hibiscus
Hollyhocks	Hypericums
Iris Kaempferi	Iris Germanica
Liatris	Lobelias
Lychnis	Monardas
Myosotis	Oenotheras
Poppies	Pæonies
Phlox	Pinks
Primroses	Scabiosa
Statice	Stokesia
Thalictrum	Tritomas
Trollius, etc.	Veronicas, etc.

Ampelopsis — Aristolochias
Clematis Paniculata — Clematis Hybrids
Honeysuckles — Hardy Ivies
Lathyrus — Wisterias

Our New Wholesale Catalogue issued January 1st offers the most complete collection of Hardy Perennial Plants in the country, as well as a full line of Decorative Greenhouse Plants, Bulbs, Seeds and all seasonable stock.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

EVERGREENS.

If you want small transplanted **Evergreens**, send for my price list. Very best stock, sure to grow, 20 kinds. Very fine White Pine, Sweet Chestnut Seedlings.

C. L. WHITNEY,
Warren, Ohio.

DO YOU WANT

Apple Seedlings

OR

Japanese Pear Seedlings?

We do not grow MORE than all others. We care WELL for what we do grow. Write us for prices, and if you want to see fine seedling ask for samples.

200,000 2 Year Apples

As fine a block as there is growing in the West.

ALL LEADING SORTS

North Topeka Nurseries,
A. L. BROOKE & CO., Proprietors
North Topeka and Grantville, Kansas

Black Locust Seedlings

ALSO

Honey Locust,	Apple Grafts,	Russian Mulberry,
Rhubarb,	Catalpa,	Asparagus,
White Elm,	Shade Trees,	and Ash Seedlings.

Many other items for the nursery trade.

J. A. GAGE, Beatrice, Nebraska.

THE NORWICH NURSERIES,

NORWICH, CONNECTICUT.

The season 1905 was its best, sales largest, losses smallest.

Not a KICK on Stock, Prices, Roots or Packing.

We sell everything that grows out doors. Let us estimate on your wants.

TREE PROTECTORS

75c. per 100. $5 per 1000

Send for samples and testimonials. Do not wait until rabbits and mice ruin your trees. *Write To-day.*

HART PIONEER NURSERIES
Box 27, FORT SCOTT, KANS.

I OFFER

large stock of grape vines, *extra* quality. A quantity of *fine* Eldorado and Blowers Blackberry and other varieties. Seventy-five thousand Columbian Raspberry tip plants, Black and Red Raspberries.

New Importation of Industry Gooseberries two and three years old. Everything graded to *highest standard.* Send for special quotations. Good assortment of nearly all varieties, including two year old Rhubarb. Can ship any time. Write me for prices.

EUGENE WILLETT,
N. Collins, N. Y.

Plants for Storage

We can furnish for late Fall orders or for Winter storage a splendid assortment of fine plants, well graded, true to name. Our surplus comprises the following:

Raspberries Earhart Ever-bearing, Cumberland, Eureka, Gregg, Kansas, Ohio, Palmer, Columbian, King (new), Shaffer Col., Haymaker, Cardinal, Brilliant, (new), Munger (new), Cuthbert, Golden Queen, Hansell, Loudon, Miller, Marlborough, Turner.

Blackberries Crystal White, Early Harvest, Erie, Eldorado, Kittatinny, Lawton, Maxwell, Minnewaski, Early King, Rathbun, Mersereau, Ancient Briton, Olmer, Stone's Hardy, Kennover (new), Blowers (new), Ward (new), Snyder, Taylor, Wilson's Early, Wilson Jr., Agawam, Wachusett, Iceberg, Dewberry, Premo, Lucretia, Austin's.

Cuttings North Star, Victoria, Cherry, Fay's, Pomona, Red Ducth, Wilder, Red Cross, London Market, Versailles, Houghton Downing Red Jacket Carolina Poplar California Privet, Orange Quince, Houghton Layers.

Garden Roots Asparagus; Rhubarb, divided roots; Rhubarb, grown from seed, 1 year; Horseradish Sets; Holt's Sage.

A good stock of **Currants, Gooseberries, Wineberries, Juneberries, Strawberry-Raspberry, Buffaloberries, Loganberries, etc., etc.** Price List on application.

W. N. SCARFF, New Carlisle, O.

Nursery Stock OF ALL KINDS At Wholesale

Send us a list of your wants for prices. We will save you money

AGENTS WANTED EVERYWHERE.

HART PIONEER NURSERIES.

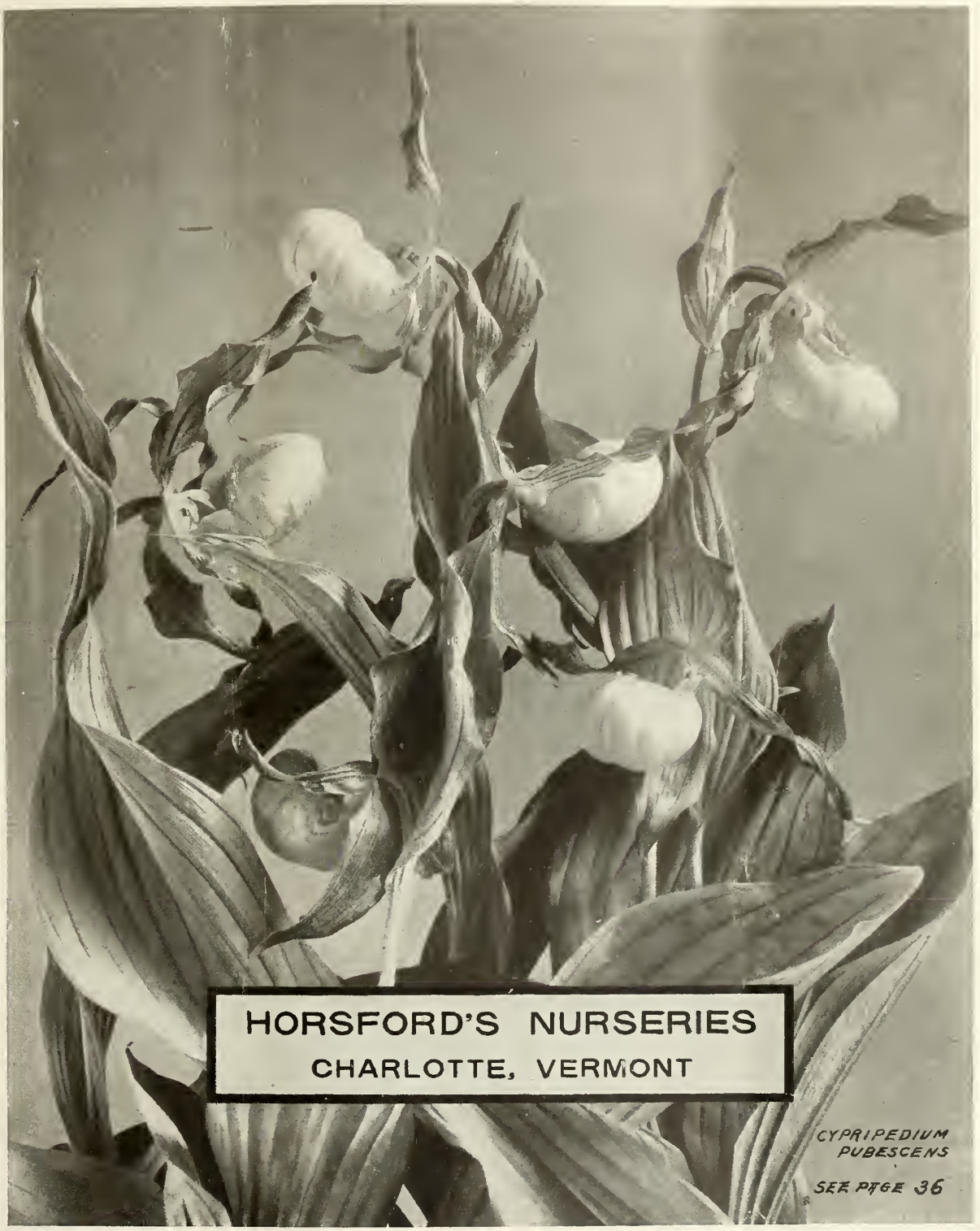
Box 27 FORT SCOTT, KANS.

W. FROMOW & SONS, THE NURSERIES,

WINDLESHAM, SURREY, ENGLAND.

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation. Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay Street, or P. O. Box 752.



A SUCCESSFUL cover designed by us from our own photographs. We have good, new, unused pictures of the stock you sell and of the other stock you ought to sell, if you knew about it. Our nine thousand horticultural photographs, made in the north, south, east and west, of wild and "tame" flowers and trees, grapes and onions, grasses and gardens, include the good things you will want, when you get up to them.

J. HORACE McFARLAND COMPANY

Printers for Nurserymen

HARRISBURG, PENNSYLVANIA

A SATISFIED CUSTOMER IS THE BEST ADVERTISEMENT

IT is not so much what we promise to do as what we really do get done that counts! For twenty-seven years our friends—who become our friends because we do friendly business with them—have been encouraging us to do better work by speaking well of what we have done. Our present solid business in catalogue-making for nurserymen has been built up thus by our customers rather than by active advertising on our part.

We have never issued a book of "testimonials," because we think they are usually pretty dull reading; but once in a while it is worth while to print a pleasant paragraph or two, just to show that we continue to "get there." Here is one:

"We were very much pleased with the work this season—much more pleased than with any catalogue we have had made heretofore. We are being complimented on all sides. Already we are getting a good business from it."

This pleases doubly because it is from a customer we have served for a dozen years, and who is accustomed to our work. Yet we score an advance in quality this year! And notice, please, that he says: "Already we are getting a good business from it." That is what holds our trade—the trade we hold and increase for our customers. But here is another one:

"We wish to say that the catalogues are extremely satisfactory. The cover is handsome, and the inside also shows up well. As compared with other mail order catalogues that we have on file, we find it very much superior to anything else, and we hope it may prove equally superior in 'pulling qualities.'"

There is a considerable gratification in this, for it is from a new customer doing business in a city badly infested with what amounts to business San José scale—printers who work for cheapness and not for efficiency. It was a hard wrench for this man to come to us, away from low prices and lower work; but he'll stay, because the new catalogue, in his active hands, will be found "superior in pulling qualities."

We will be glad to serve some more "doubting Thomases" in March and make them our steady friends. We never lose a worthy customer. Write us ahead of your spring push.

J. HORACE McFARLAND COMPANY

Mount Pleasant Press

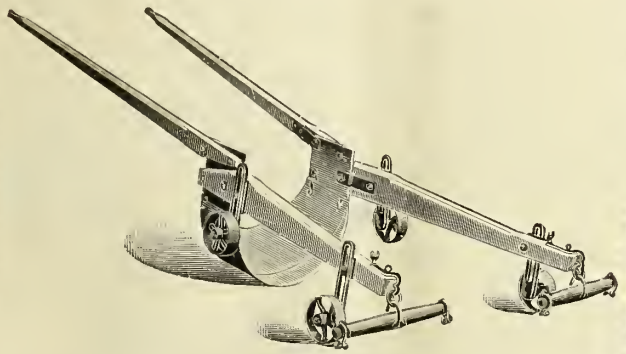
HARRISBURG, PENNSYLVANIA

Catalogues for nurserymen—thousands of illustrations at hand—more thousands of photographs—long experience—perfect equipment—no electros, "stock" catalogues or plate-books to sell.

[OVER]

1857 **L. G. BRAGG & CO.** 1906

Growers of No. 1 Nursery Stock, also manufacturers of Bragg's Common Sense Tree Digger and Jumbo Cultivator. The Jumbo does fine work from start to finish. The operator rides over the tops of 3 and 4 year trees and the



Digger gets all of the roots at the rate of 20 to 40 thousand trees per day.

L. G. BRAGG & CO.,

KALAMAZOO, MICHIGAN.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS.

Have for sale a large and complete assortment of Nursery Stock, strong on

APPLE, CHERRY, PEAR, PLUM, PEACH, APRICOTS, FOREST TREE SEEDLINGS, APPLE SCIONS.

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs.

A Southern Location

FOR YOUR HOME, YOUR MANUFACTURING PLANT OR YOUR BUSINESS.

Farms in Virginia, North and South Carolina, Georgia, Alabama, Mississippi, Kentucky and Tennessee.

Nurseries and Fruit Farms Succeed in the South

All conditions are favorable. There are fine Markets, Good Locations, Low Cost of Labor and Splendid Distributing Facilities.

Good Lands at Low Prices.

A HEALTHY CLIMATE, LONG GROWING SEASONS, AND AN ALL-THE-YEAR WORKING SEASON.

The South is now making greater progress than any other Section. If you would learn about its developments, and the opportunities for good locations along the Southern Railway, write for copies of our publications, which will be sent free on request.

M. V. RICHARDS,

LAND AND INDUSTRIAL AGENT,

SOUTHERN RAILWAY, WASHINGTON, D. C.

When writing to Advertisers mention The National Nurseryman.

DREER'S SPECIALTIES.

Hardy Perennial Plants

All the standard and leading varieties in immense quantities, of a size and quality to give best results to planters.

Aconites	Asters
Anemone Japonica	Campanulas
Aquilegias	Corcopsis
Delphiniums	Digitalis
Doronicum	Funkias
Gaillardias	Heleniums
Helianthus	Heliopsis
Hemerocalis	Hibiscus
Hollyhocks	Hypericums
Iris Kaempferi	Iris Germanica
Liatris	Lobelias
Lychnis	Monardas
Myosotis	Oenotheras
Poppies	Pæonies
Phlox	Pinks
Primroses	Scabiosa
Statice	Stokesia
Thalictrum	Tritomas
Trollius, etc.	Veronicas, etc.

Ampelopsis — Aristolochias
Clematis Paniculata — Clematis Hybrids
Honeysuckles — Hardy Ivies
Lathyrus — Wisterias

Our New Wholesale Catalogue offers the most complete collection of Hardy Perennial Plants in the country, as well as a full line of Decorative Greenhouse Plants, Bulbs, Seeds and all seasonable stock.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

Dreshertown Office, Wholesale Department, Thomas Meehan & Sons, Inc.
Evergreens are frequently transplanted and sheared. This is a block of Japanese Golden Cypress, two year transplanted and sheared.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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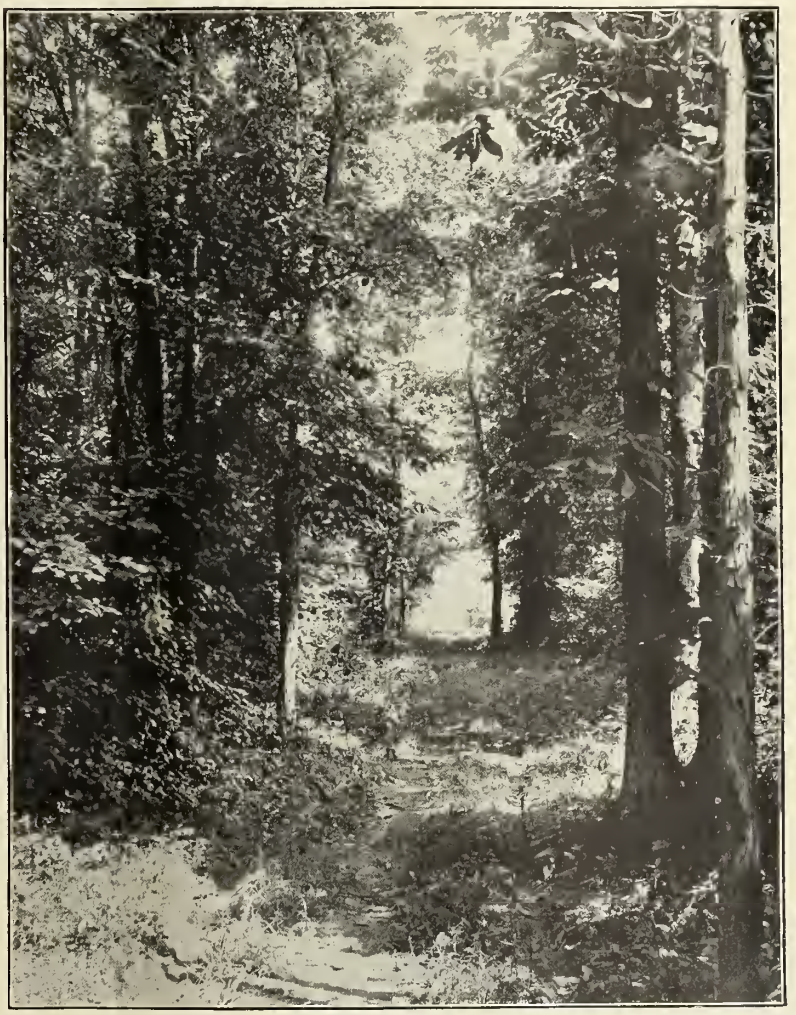
Vol. XIV. ROCHESTER, N. Y., MARCH, 1906. No. 3.

THE MEEHAN NURSERIES.

PIONEERS IN THE VICINITY OF PHILADELPHIA.--NOTED AMONG THE HISTORIC NURSERIES OF THE EAST.

(Written and Illustrated by our Special Correspondent.)

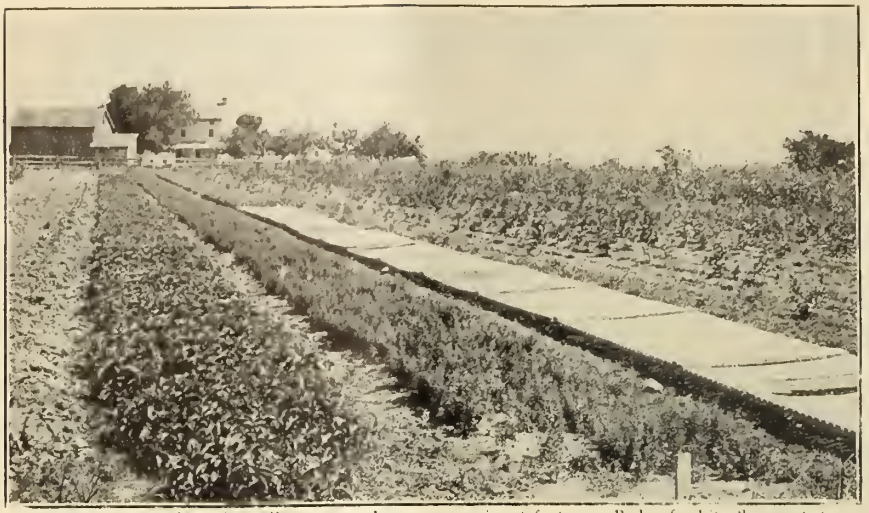
Philadelphia is one of the historic nursery centers of the United States. Although the oldest nursery in this country was established on Long Island, yet Philadelphia is connected with the development of the nursery business and the introduction, as well as exportation of trees and shrubs, more extensively and intimately than any other city on the continent. It was here that Marshall and Bartram, the eminent horticultural botanists, had their headquarters, and for many years carried on an active interchange of seeds and plants with European botanic gardens, more particularly that of the London Horticultural Society. It was natural, therefore, that a man bred in the atmosphere of English gardens should locate in Philadelphia, and we find Thomas Meehan starting a nursery business on three acres of ground in Germantown, in 1854. Mr. Meehan was primarily a horticulturist and botanist. He was of a type now rather rare—that of the old-time naturalist—the man whose interests are not bounded by the limitations of horticulture, or botany, or entomology, but who roams delightedly throughout the whole field of natural science. The founding of the Meehan nurseries in Philadelphia may be regarded as an epoch in the progress of the nursery business in the United States. The business continued unchanged from the time of its inception until 1887, when it became known as Thomas Meehan & Son, when Thomas B. Meehan became a member of the firm. In similar manner other sons of Thomas Meehan were taken into the partnership, in which form it stood until 1902, when it was re-organized into three branches—the retail department at Germantown, the landscape department at Germantown, and the wholesale department at Dreshertown. It then became an incorporated company with a paid-up capital of $100,000.



A pleasant driveway in a bit of nature's planting on one side of the wholesale grounds at Dreshertown.

This stock is held entirely by the three sons of the late Thomas Meehan, who are now carrying on the business. The landscape department is under the direct management of J. Franklin Meehan; the retail department, including the retail nursery at Germantown, under the management of S. Mendelson Meehan; while the wholesale department and general nursery grounds at Dreshertown are under the supervision and management of Thomas B. Meehan.

As stated above, the area devoted to nursery grounds originally consisted of the small plot of three acres. It grew continuously until 1894, when it covered 75 acres. At that time it was decided to double the acreage, and it



Ornamental tree and shrub seedlings were always a prominent feature. Beds of white flowered dogwood, Japanese barberry and magnolia acuminata (under sash) are here illustrated.

being impossible to secure suitable land adjoining the old nursery grounds in Germantown, a tract was secured at Dreshertown, Montgomery County, which has been frequently enlarged, until at present it comprises an area of some 215 acres. This, with the original 75 acres then, gives a total of 290 acres. This sketch deals more particularly with the wholesale division, where Mr. T. B. Meehan is manager. The 215-acre area composing this block is beautifully located on a gentle ridge, which gives it a southeast exposure. The soil is typical of that region, being a clay loam with sufficient gravel to develop good, fibrous roots on trees and plants.

Excellent shipping facilities are afforded by a private siding on the Pennsylvania Railway, which enables the wholesale firm to ship east or west on through freights.

The proclivities of the senior member of the firm largely decided the character of the nursery business to be conducted by himself and continued by his sons. It was natural, if not inevitable, that native and exotic forms of ornamental trees and shrubs should receive special attention. Mr. Meehan was strong in the faith that America should and could produce all the ornamental materials required for her own planting, and for many years, as at the present time, the lists of American plants in these nurseries have been and are exceedingly full.

The rotation system of growing nursery stock is carefully practised by this firm. Not only do different classes of stock follow each other with regularity, but the rotation is supplemented by heavy manuring with stable fertilizers. The experience of the firm is that no commercial fertilizer will produce as good results as stable manure year after year. In passing, it may be remarked that this is in line with most experiments and experience at large the country over. One of the peculiarities of the firm's methods, and one which is at variance with the practice of many other nurserymen, is that very little winter storage work is done. The soil is so well drained and so advantageously located, that it can be worked early in the spring and late in the fall, so that the shipping season is a long one at both periods. For this reason, nearly every order is dug fresh from the ground, and very little is stored in cellars.

A block of about five acres of European sycamore—Platanus orientalis—comprising twenty thousand trees, two years old. Many of these trees caliper 1½ inches and are 12 feet high.

The pin oak is one of the best of our street and park trees. Here is a block of several thousands of well grown specimens on the grounds at Dreshertown. Berberis Thunbergi in the foreground.

Among the specialties in the way of ornamentals are *European sycamore*. A fine block of 20,000 of these is exhibited in one of the accompanying illustrations. Another block of 25,000 *Norway maples*, when the photograph was made at the end of the last growing season, now contains only about 5,000 of this variety. Another tree which is a favorite shade and street tree of this firm is the *pin oak*. These are planted so that they grow strong and robust, and admit of transplanting without check or shock.

The late Thomas Meehan was much interested in Japanese plants, and he was one of the first to bring to the public a true estimate of the value of the retinosparas, the Japanese cypress. A group of these is set forth in accompanying frontispiece.

Carrying out the idea expressed above, that the firm is pushing native plants, the photograph of white-flowered dogwood is suggestive. Under the sash are young plants of the native cucumber tree, and adjoining are blocks of seedling oaks, varying from two to five feet in height, which are to be transplanted to nursery rows next spring.

Among new introductions which ought to be credited to this firm is the weeping dogwood, found growing wild in the woods near Baltimore. This is a large shrub or low-growing tree, and very desirable for restricted areas. The red-flowered dogwood has also been a favorite with the firm, and has through them obtained a wide distribution.

Among the herbaceous plants, peonies have for many years, been a specialty. Not only were they grown from seed, but the propagation of distinct varieties by division of roots was practiced extensively for a number of years. Recently this branch of the business has been considerably enlarged by the purchase of the large peony nurseries of H. A. Terry, a prominent peony breeder of western Iowa.

Over 300,000 plants have been added to the home nurseries by this purchase. They will form a very large addition to both retail and wholesale branches.

A NURSERYMAN'S VIEW OF SOME LEGISLATIVE ENACTMENTS REGARDING FUMIGATING AND SHIPPING STOCK.

The points made by "Anti-Radical" in the February number, as to the abuse of the present laws relative to San José scale, are well taken. It is manifestly the fact that the country is burdened, both with too much legislation and by too narrow methods in the interpretation and execution of the laws. This radical tendency is harmful to all interests. The difficulty in the situation, as applied to the San José scale matter, is that that pest has been already pretty thoroughly disseminated over the country. The attempt to prevent its introduction or spread by extreme burdens thrown upon those engaged in the nursery business is quite in keeping with the plan of enforcing, by much sacrifice, the bolting of the door after the horse is stolen. Some of the statutory restrictions now imposed upon nurserymen by the laws of many of the states, as to destruction of stock and fumigation, are sufficient handicaps to turn a small aggregate profit into loss; or drive those now in the business out of it. And withall, the scale everywhere existent and continuously disseminated by agencies which cannot be controlled, with or without legislation. The phylloxera stampede years ago; the panic over the appearance of the weevil in the wheat fields in the "early sixties;" the hue and cry over the prospective destruction of the entire potato production of the United States in the appearance of the potato bug, are similar cases in point.

The crux of the whole matter is, the burdens now placed upon the nursery industry do not change the existing conditions, more than would attempted legisliative barriers have prevented the insect pests just mentioned from "having their day" throughout the country and the districts affected. These burdens upon an already heavily-handicapped business should, therefore, be lessened rather than increased. But now comes a proposition to still further hamper, restrict and injure the business by more legislation, attempting to compel all shippers to have a uniform tag or certificate. Even the color must be defined by the law-making power. Not content with form, size and color, the advocates would follow the lead of the great corporations, and inject the interstate feature of control,—a scheme so much more easily managed by a central board, or by concentrated authority in the hands of the few.

Why the present restrictive and burdensome laws for certification and fumigation are not ample protection,—which, as is well known, even if enforced to the letter, do not now protect,—does not appear. Nor is it made clear why the principle of concentrated control which, in the applied principle of "high finance" to insurance and other corporate matters has become the bane of the country, should now be extended to the nursery business.

Should the nurseryman and the various associations, really interested in the welfare of the business and in the promotion of what pertains to the good of horticulture, strenuously disfavor farther costly, troublesome and useless restrictions, they would never effectually protect their own interests, while at the same time co-operating with the state authorities for the better protection of the public from the injuries these scale pests occasion?

FREDERICK W. KELSEY.

New York, N. Y.

APPRECIATION AND PROSPERITY.

EDITOR NATIONAL NURSERYMAN:

I enclose you my check for $16.50, being $13.50 for advertising and three years' subscription. I enjoy paying this $3.00, it is an investment that pays several thousand per cent.

We are having a good year in the business. I never, in all my life, had such a demand, both retail and wholesale.

F. T. RAMSAY.

Texas.

Doings of Societies.

OKLAHOMA NURSERYMEN'S ASSOCIATION.

The following program was carried out at the last meeting of this society at Guthrie on January 15th and 16th.

JANUARY 15TH, 3 P. M.

Opening Address—J. W. Preston, Kingfisher.
Report of Secretary and Treasurer.
Report of Committee on Constitution and By-Laws.
Completion of Membership Roll.
Election of Officers.
Appointment of Committees.

7 P. M.

Budding and Budded Peach—T. W. Tetirick, Blackwell.
Managing Salesmen—J. A. Lopeman, Enid.
Propagation of Apple Trees by Whole Root and Piece Root Grafting—G. S. Holman, Duncan.
Strawberries—W. G. Dugan, Cleveland.
Hardy Ornamentals—J. W. Furrow, Guthrie.

JANUARY 16TH, 9 A. M.

The Relation of Nurserymen to Planters—Jim Parker, Tecumseh.
Seedling Growing—J. P. Taylor, Shawnee.
Methods of Planting Forest Seedlings and Small Fruit Plants—J. T. Pierce, Oklahoma.
Top Working of Nursery Trees—W. E. Broome, McLoud.
Propagation of Pears—C. E. Garee, Noble.
Reports of Committees.
Unfinished Business.
Adjournment.

All Nurserymen in Oklahoma and Indian Territory who expect to remain actively engaged in the business and who hold certificates of inspection from the Oklahoma Board of Agriculture, are invited to come out and join us. Let us build up and maintain a strong society for mutual good. Many topics of interest will he discussed from time to time. Visiting nurserymen from other states are always welcome.

The membership of the Society is as follows: J. A. Lopeman, Enid; Albert Mathis, Newkirk; Wilson & Harmon, Yale; Cleveland Nursery Co., Cleveland; J. W. Preston, Kingfisher; Durant Nursery Co., Durant, I. T.; C. D. Hunt, Medford; Do Ihloff, Okeene; Olson Bros. Perkins; Earl Albertson, Yukon; A. D. Leach, Spencer; J. A. Douglass, Perry; H. Emerson, Enid; Chickasaw Nursery and Seed Co., Duncan, I. T.; J. T. Pierce & Son, Oklahoma; J. W. Tetirick & Son, Blackwell; Furrow Bros., Guthrie; Backs Nursery, Altus; J. B. Durkeson, Friendship; Garee & Garee, Noble. Honorary, E. Albertson, Bridgeport Ind.

Visitors at this meeting: Messrs. Albertson, Cooper (Winfield) and Bernardin, (Parsons) Kans.

J. W. PRESTON, President, Kingfisher, Okla.
C. E. GAREE, Secretary, Noble, Okla.

CONNECTICUT POMOLOGICAL MEETING.

This society met at Hartford on February 7th and 8th. The meeting was one of the best in the history of the Association. A number of out-of-state men assisted in the program. Mr. J. R. Cornell, the fruit grower of Newburgh, Mr. Wm. H. Skilman, president of the N. J. Horticultural Society, James Draper, Worcester, Mass., H. W. Collingwood, T. L. Kinney, the noted apple grower of Grand Isle, Vt., and Prof. M. V. Slingerland, were among the speakers from abroad. One of the leading topics was the fighting of insects and diseases. Mr. J. H. Hale presided at a session devoted to public improvement work.

The officers of the society are J. C. Eddy, President, and H. C. C. Miles, Secretary.

Gentlemen:—In reply to yours of the 2nd inst., will say that I wish the $2.00 to apply on the subscription of the Missoula Nursery Co., the same party you have been sending the paper to for years. I think the NATIONAL NURSERYMAN the best trade paper, and do not intend to be without a copy.

Missoula, Mont. C. F. DALLMAN.

ARKANSAS STATE HORTICULTURAL SOCIETY.

Among the prominent men who spoke at the sixth annual meeting of this society, which convened at Mena the latter part of January, were Prof. T. V. Munson of Denison, Tex., Prof. C. S. Dutcher of Missouri, and Dr. Von Schrenk of St. Louis. The discussion developed the fact that blight is one of the serious enemies of pear culture in that vicinity, and that Kieffer and Garber were among the most reliable varieties. Dust spray methods were discussed by Capt. Lincoln and Prof. Dutcher who recommended the dry spray where conditions were unfavorable for the use of liquid applications.

MONTANA HORTICULTURISTS MEET.

Among the crop of horticultural meetings held in January which were not noted in the February issue, was Montana, held at Missoula, where our friend C. F. Dallman was elected president; and Kentucky, which met at Shepherdsville the latter part of January. The latter society discussed small fruit growing to a considerable extent, and among orchard fruits, devoted attention to the pear. San José scale was discussed by Prof. H. Garman of the State College of Agriculture.

ALABAMA HORTICULTURAL SOCIETY.

At the third annual meeting of this society, Pres. W. F. Heikes offered a most suggestive and interesting address. He enlarged upon the opportunities for truck growing and fruit growing in that state, the necessity of encouraging forestry, and the desirability of promoting horticultural education in its broadest sense. In speaking of the fruit and nursery interests of the state Mr. Heikes said:

"Some valuable facts ought to be gathered at this meeting concerning the best fruiting localities in this state. Especially after a year so exceptionally unfavorable to fruits of all kinds as has been the past, it is of great importance to those who contemplate the starting of commercial orchards to know just where the fruit yield has been most satisfactory.

"It should not be overlooked that the supply of trees needed for planting in this state can be produced from nurseries within its borders. The nurseries of Madison county, Alabama, rank with the best and largest in our country, and it is probable that more trees are grown in this county than in any other in the United States, not excepting Monroe county, New York, of which Rochester is the county seat. These nurseries, near Huntsville, Alabama, ship hundreds of car loads of trees annually, which are distributed to all parts of the United States.

"The remarkable growth of this industry is largely due to the character of the soil and climate, which are most favorable to the production of vigorous, shapely, well-rooted trees and plants. The marked increase in the number of nurseries throughout the state within the past few years is evidence of the rapidly growing demand for trees and plants, and that the nursery industry is making notable progress, in keeping with the trend of the times."

The fruit growers of Le Grande, Oregon. have effected an organization called the Grande Ronde Valley Fruit Growers' Union. This association comprises the leading orchardists in the vicinity and starts off with a membership of seventy-five or more. The purpose of the organization is to handle the output of the orchards in a co-operative manner.

NATIONAL NURSERYMAN PUBLISHING CO.,
Rochester, N. Y.

Gentlemen:—Responding to your esteemed favor of the 5th, we enclose $2.00 to cover your bill and wish the NATIONAL NURSERYMAN a prosperous year, during the year 1906.

Business in this section is beginning to open up rather early; winter has been mild and everything looks most favorable for the season. When our company was started here, we began on too small a capital for the business we attempted to do. Recently we have increased our capital to $25,000, and we fully expect to build up a strong plant in this section.

Very truly,

Aurora, Ill., AURORA NURSERY COMPANY.

Correspondence.

WHAT OUR READERS SAY.

EDITOR NATIONAL NURSERYMAN:

Allow me to inform you that I have closed out my nursery business and all relations to the same, and will be in other lines of business in the future that will most likely require all my time, so that I will not be interested in the Nursery work farther than all men are after having a business course in that line. While a reader of your paper for several years past, I have many times over received value for my money, and if I had the leisure time I would keep up the subscription merely to see what my old comrades in the trade were doing; but owing to my time being required along other lines, I will ask that you discontinue the subscription. Wishing you unbounded success and thanking you for the favors you have bestowed on me in the past, I shall ever remember you as a true friend to the growing trees and shall always be ready to speak a good word for the NATIONAL NURSERYMAN.

A. S. PERRY.

Yukon, Oklahoma.

Quiz Column.

TREATMENT OF SHRUB CUTTINGS.

PROPAGATING SHRUBS FROM CUTTINGS.

Cincinnati, O., Feb. 14, 1906.

Gentlemen:—Please answer in your next issue. When is the best time to put in hardy shrubbery cuttings. Is it best to take them out now or wait until April? Yours truly,

A SUBSCRIBER.

There are two ways of handling ripened cuttings of shrubs and ornamental ligneous stock. The cuttings may be made in the autumn after the leaves have fallen and before hard frost, tied in bundles, bedded in pits, butts up, out of doors. The pits should be protected with sufficient mulching material to keep out frost. In spring, the soil and mulching material are raked off, leaving a covering of two or three inches over the butts of the cuttings. If the pit is located in a sheltered situation exposed to the strong rays of the sun, and kept reasonably moist, the cuttings will callous comparatively early and be ready for planting practically as soon as the ground is well warmed and in condition to receive them. This system may be modified by storing the cuttings in moss in a cool cellar: but the cellar should be very cool, otherwise they are apt to start during winter. Sometimes the butts are placed downwards on a damp cellar floor, where callousing may take place as under out-door conditions.

The second method plants the cuttings in the ground directly in the fall. This means that they must be taken as early as possible after the wood ripens, planted like currant wood, and mulched during the winter to prevent heaving by the action of frost. Many varieties of shrubs will strike fairly well if handled in this way. The mock oranges, some of the spiræas, wiegela, honeysuckles, and the like do fairly well.

Of course nursery firms which make a specialty of growing shrubs have specially designed propagating beds, and grow large numbers from partially ripened wood. C.

Gentlemen—Find enclosed $1.00 for which please credit us with another year's subscription. We think it expired in November, but have not missed any copies.

We have taken your paper for about 10 years and expect to 10 more, as we cannot do without it. The new cover is all right.

Wishing you continued success, we are,

Beverly, Ohio, Feb. 12, 1906. W. T. MITCHELL & SON.

GERMAN TARIFF ON AMERICAN APPLES.

The long-talked of German tariff on American apples will go into effect on March 1st. Of course, this tariff affects not only American apples, but apples from all foreign countries. The duty will be paid by the buyers, but the effect will unquestionably react upon the shippers. German commission houses are advising American shippers not to make any consignments after March 1st. It is probable that the German consumer will be obliged to pay this tariff the present year, because the European markets are practically bare of apples. The ultimate effect will be to cut down the exportation from this country very materially.

Note and Comment.

A SAN JOSÉ SCALE INCIDENT.

An interesting and apparently new fact has been added to our knowledge of the life history of the San José scale by Mr. Cunningham, inspector of fruits for British Columbia. In writing under date of December 15th, Mr. Cunningham says that he was interested in examining a consignment of Japanese oranges. On some of these he found San José scale. He took samples of the infested fruit to his office and from one of these he removed a well developed specimen of female scale, placed it upon a glass slide and set this under his objective for the purpose of examination. While in this position and quite separated from the orange, the scale gave birth to several young. The remarkable thing about it was that a family of seventeen young scales were produced under these conditions in three days, the parturition period of the insect covering that time. The oranges from which this specimen was taken had been subjected to a temperature below forty degrees Fahr. for a considerable length of time in the warehouse, the insect was then placed on a cold glass slide and the young were produced in this condition, covering that long period of more than seventy hours. Another remarkable feature is that the young scales seemed healthy and vigorous. This throws some side light on the possibilities of scale infection from fruit. The British Columbia Department of Agriculture is making immediate arrangements, looking toward the fumigation of all fruit from oriental countries.

CANADIAN FRUIT MARKS ACT.

Canadians seem to be thoroughly in earnest in regard to the enforcement of the Fruit Marks Act. Recently, two exporters, James Coyle and F. C. Morrill of Trinton, Ont., were arrested and fined $50 and costs, or thirty days in jail, for fraudulent packing of apples in defiance of the Fruit Marks Act. The fruit trade of Canada is now estimated by Supt. McNeil to be worth between $2,500,000 and $3,000,000 per year, and those who claim to know are very positive that the inspection law and government brand has had much to do with raising the standard of Canadian fruit in the British market.

PEACH SETTING IN ARKANSAW.

Report has it that more than a thousand acres of land will be set out to peaches in the vicinity of Stevens, Ark., during the coming winter. This means several hundred thousand trees. The extension of peach growing in that region seems to be somewhat in advance of the transportation facilities available.

TEXAS VEGETABLES.

The first consignment of Texas vegetables made their appearance in St. Louis during the last week of January. Fair prices and good quality of stock characterize the season thus far.

The National Nurseryman

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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WESTERN NEW YORK HORTICULTURISTS.

The meeting of the Western New York Horticultural Society, briefly described in the last issue of the NURSERYMAN, was one of the most remarkable gatherings of fruit growers that this noted organization has seen; and in saying this, it is tantamount to saying, that any horticultural body has seen. The sessions of this society are always characterized by practicality, pointedness and intense interest. The papers bear upon present-day problems, are usually brief, directly to the point, and are always followed by pertinent discussion. The secret of the success of these meetings lies largely in the management of the program and the direction of the discussion. The former is in the efficient hands of the energetic secretary, John Hall. The latter is directed by the master hand of President Barry, whose many years' training under the first president of the society, his father, Patrick Barry, were years of valuable instruction.

Strange it is, that the two state societies of New York are both doing better work to-day than the one society, which exclusively represented fruit interests of the state, accomplished five or six years ago. The spirit of healthy rivalry evidently stimulates the work of each.

THE EFFECT OF SPRAYING APPLES ON YIELD AND INCOME.

In the course of recent investigations by Cornell Horticultural Department, in the apple orchards of Orleans County, New York, some interesting and highly suggestive figures were secured by examining the crops obtained by fruit growers who sprayed, and others who did not spray, their orchards. In the case of 381 acres of apples which were not sprayed, the yield for 1904 was 328 bushels per acre. Of this, 67 per cent. was barreled. Of 352 acres sprayed once, the yield amounted to 346 bushels per acre, and 74 per cent. was barreled. There were 701 acres examined which were sprayed twice. The average yield per acre of this area was 374 bushels, and the amount barreled was 78 per cent. Some fruit growers sprayed three times. 247 acres were sprayed three times, and the average yield per acre for this area was 414 bushels. Of this, 87 per cent. was barreled. Note how the yield increased regularly with the number of sprayings.

That spraying has a direct influence on the income per acre is well demonstrated by the following figures: 54 orchards comprising 449 acres unsprayed, in that year gave an average income per acre of $103. 30 orchards aggregating 316 acres sprayed once, gave an average income per acre of $139. 64 orchards with 644 acres sprayed twice, gave an average income per acre of $143; while 25 orchards aggregating 236 acres sprayed three times, gave an average income per acre of $184. Some growers spray more than three times, and there were six orchards amounting to 43 acres of apples sprayed four times, which yielded an average income per acre of $211.

This kind of evidence ought to strengthen the opinions of anyone who is wavering on the question of whether

to spray, or not to spray, the coming season. Dollars and cents furnish the most effective arguments in farming, as in other enterprises. They are not the whole thing, but they have a preponderating tendency.

CANADIANS ON THE FRUIT TARIFF QUESTION.

There seems to be a lack of unanimity among Canadian fruit growers on the question of tariff on fruit from the United States into Canada. The growers along the Niagara river and in the Hamilton district favor a tariff, while other sections of the country, representing more particularly the fruit consuming regions, would like to have the tariff lowered instead of increased. Fruit commission houses in Winnipeg claim very unsatisfactory results in handling peaches grown in Ontario, and would like the tariff removed on this fruit, so that early peaches might be secured from the states to the south and west. An editorial from the *Winnipeg Free Press* says that the West wants tariff reduction, not tariff increases. "The West will not stand for any tariff increase, and, least of all, for tariff increase on fruit. If any indication is given of an intention to alter the tariff in the manner demanded by the Niagara peninsula fruit growers, the government will find it met by a protest from the West that will be anything but perfunctory in character."

One Canadian legislator has suggested that a tariff should be arranged for districts and for stated periods; that is to say, certain regions could be favored with a tariff for a definite period, and when the fruit shipping season in that section was over, the tariff might be removed. This, on the surface, looks like a kindergarten and childish method.

SPRAY RIGS FOR NURSERYMEN.

In the growing of fruit stocks of all kinds, of many kinds of ornamental stocks, notably roses and hybrid perpetuals, spraying is not only desirable and advisable, but absolutely essential. It is rather remarkable that nurserymen who represent the advance guard and the progressive type of fruit growers, have not, in all cases, fully realized this. The progressive orchardist has adopted the practice; some of our nurserymen practice it, although it must be said that there is more talking than doing in this field. One of the retarding causes has been the lack of the special type of sprayer needed by nurserymen. This difficulty has been removed, and it is now possible for a nurseryman to secure from almost any responsible maker of pumps a type of machine specially adapted for use in the nursery row. If they are not on the market, the wide-awake manufacturer ought to be able to build one to order.

The features of a nursery spray rig are an extension axle tree, to accommodate varying width of tree rows: good broad tires adapted for use in soft ground; a well-elevated body to pass over nursery trees of moderate height, and an adjustable set of nozzles, so that the spray may be delivered at different heights and angles. With a machine of this type, the budding season of stocks could be much better controlled than is usually the case. Severe losses in pear and cherry stocks might frequently be avoided by spraying in advance of the budding season, thus saving the foliage, and thereby promoting growth. The leaf spot diseases, so common to nursery stock, are mostly preventable by the use of Bordeaux mixture. Should not nurserymen start out this season fully resolved to wage an earnest campaign against the enemies of their fruit stocks?

ADVANCES IN SPRAYING.

The improvement of machinery which enables the nurseryman and fruit grower to apply poisonous and fungicidal sprays economically and effectually, is remarkable, as measured by the advances of recent years. Let us compare the hand whisk-broom, the syringe and hand pump of a quarter of a century ago with the efficient machines of to-day, and the contrast is strikingly apparent.

The larger spraying machines have developed along two lines: those operated by steam, gasoline, or gas, and those which derive their power from the revolution of the wheels on the vehicle which carries them. Both types of machines have valuable features, and are peculiarly desirable under certain situations. In the case of large trees, such as prevail in the apple sections of eastern and western New York, continuous high power is necessary, and here the engine, or other motive power of similar type, has the advantage of the machine which derives its power from the movement of the vehicle. In the case of the second class for nursery stock, vineyards, small fruits and the like, where it is unnecessary to stop for more than a minute or two, the style serves admirably, and this type of machine has been greatly improved within the last few years.

One of the important points in connection with all types of spraying is that an abundance of power is needed to do the work. Failures to secure good results from spraying are frequently to be charged to the inefficiency of pumps. Lack of power means a coarse spray, and this may be injurious, and is often unsatisfactory. Plenty of power means a fine spray, and ensures economy in the use of the spray material.

In the line of spray materials, there have come forward two remedies which appear to earn deserved prominence. Both of these are insecticides; the first, arsenate of lead for the destruction of leaf-eating insects, the second, soluble oils for the control of scale or sucking insects. Both types are more expensive than older forms of arsenic and oil, but it is to be remembered that an insecticide should not be measured too rigidly by its first cost, but a better standard is its final efficiency. These materials and types of pumps mentioned above are presented in the advertising columns of this issue, and we would advise our readers to carefully study the merits of each machine and plan now for a well-executed campaign against insects and fungous diseases. We carry advertisements of the best spray pump manufacturers in the country, and any type of spray machine can be procured with little difficulty, either out of stock or made to order.

CALIFORNIA TO THE AID OF MASSACHUSETTS.

For the past three months the agricultural and horticultural journals of the country have been replete with warnings regarding the destructive habits and rapid spread of the Gipsy and Brown tail moths. These are established in Massachusetts and in certain other parts of New England, and are expected to sweep over the country. Massachusetts has thus far failed to control the Gypsy moth, although a large sum of money, $300,000 or more, has been spent in an effort to eradicate the pest. The Massachusetts Gypsy Moth Commission has labored hard, but thus far ineffectually. Now comes an interesting offer from an entomologist of the Pacific Coast, no less a person than the State Commissioner of California, Mr. Elwood Cooper, who says: "I am willing and will undertake to wipe out the Gypsy moth, as also the Brown tail moth, for the sum of $25,000. I have the experts, and know just how to proceed. I will not undertake this important work, however, until the parties now engaged have spent the money and have failed to accomplish any substantial success, which I feel confident will be the result. They have no training in parasitic search, and have not the knowledge to propagate the parasites if these were in their hands."

Our California friends do not take kindly to this offer, and the *California Fruit Grower* suggests that there may be still enough work of this character in their own state to occupy Mr. Cooper for some time to come. Certain it is that California occupies high rank as a state in which insect pests are combatted by pitting against them their natural enemies. Certain shining examples are always cited. The introduction of vedalia cardinalis, which has proved so efficacious in controlling the cottony cushion scale of the citrous fruits, is a noted case in point. The Commissioner of Horticulture is at present cultivating an insect foe of the codling moth, which has been imported from Spain, and which is being "coddled" in the state insectory, and will be set to work as soon as it has been bred in sufficient numbers.

There is a cock-sureness about this offer which is truly western. Nevertheless, the subject is so important that our California friend should be given an opportunity to exercise whatever magic, or practical arts he may be able to bring into play.

EXPANSION OF FRUIT REGIONS.

As one looks over the fruit regions of the United States, the thing that strikes him most forcibly at the present time is the rapid development going on in nearly all sections. Notwithstanding occasional backsets in the way of hard winters, spring frosts and summer droughts, the growth has been steady and continuous. Each section has its own characteristic type of development. In the East, New York, Ontario and Nova Scotia, the apple is dominant, and the area is rapidly extending. This is true to some extent in parts of New England, but the most notable movement in this older region is in connection with the planting of peaches. Some sections, like parts of Connecticut, are leading in the utilization of rough and partly unproductive lands for the growing of peach orchards. In the middle West there is no large movement taking place. In the Carolinas, the Ozarks and eastern Texas, however, peach planting has been going on actively for the past two or three years, and with the tremendous areas being set out, one cannot help asking whether, in the case of the perishable fruit like this, we are not likely to actually meet the bugbear, overproduction. Georgia is doing the same as the Carolinas and the Ozarks, even taking into account our excellent refrigerating methods, though we cannot say as much for refrigerating service, there seems great danger of the business being overdone.

One of the lines of fruit growing that is not likely to be over-developed is the growing of vinifera grapes in the valleys of New Mexico and parts of Arizona. Certain sections in this great and yet undeveloped region are showing special adaptation for the production of the European grape. It seems to us that here is a line that might be developed without danger of overloading the market.

Of course, the failures which continually occur here and there help to maintain the balance, especially when considered in connection with the constantly increasing consumption of fruit. But after all, when engaging in the business, one should consider the perishability of the product, the difficulties of transportation, and, if one has land in the East, consider whether it is not wiser to plant a crop like the apple which, though it matures slowly and brings in its return on capital invested tardily, is safer and better in the long run than the one which matures quickly, but is attended with many possibilities of loss.

THE COMING DALLAS CONVENTION.

RECEPTION COMMITTEE.

At the last meeting of the Nurseryman's Association at Palestine, a reception committee composed of Mr. Nicholson of the Texas State Floral Company, Professor E. J. Kyle, Horticulturist, of College Station, W. A. Yates, of Brenham, D. H. L. Bonnar, of Omen, and F. W. Malley, of Nacogdoches, were appointed as members of the committee to look after the general details relating to the reception of the members of the visiting convention.

Des Moines, Iowa, Feb. 26, 1906.

National Nurseryman,
Rochester, N. Y.

Gentlemen,—Your letter of recent date just at hand notifying me that my subscription has expired, and I enclose you my check for $1.00. I could not get along without your paper coming to me regularly. I am interested in pushing commercial orcharding in the South in connection with my nursery business. I enclose you a small folder of my latest venture. I have just returned from a trip through the states of Arkansas, Missouri and Kansas, inspecting the fruit conditions. All the territory laying north of the Ozark Mountains in Missouri the peach crop is badly hurt, while south and east of the range the damage is very slight and the prospects are good for a large crop. The apple prospects were never better.

Yours very truly,
M. J. WRAGG NURSERY CO.,
M. J. Wragg, Mgr.

TREATMENT OF SAN JOSÉ SCALE.

FALL TREATMENT.

BY JOHN B. SMITH, NEW JERSEY EXPERIMENT STATION.

In consideration of experiments and observations already recorded and commented upon, the following practice seems indicated:

As soon after October 15th as possible, when the crop is off, when the foliage has begun to thin out and drop, and while the scale is yet active, apply that insecticide with which you are most familiar, at full winter strength and as thoroughly as possible. An exception must be made of whale oil soap, which should not be applied stronger than one pound in one gallon of water, if at all.

It is obvious that the date given (October 15th) cannot be arbitrarily adopted in all parts of the state in all seasons, or even for all trees. In the hilly north, frosts cause the foliage to fall much earlier than in the warm, sandy plains of the south, and the peach is usually trimmed out before the apple foliage begins to drop to any considerable extent.

So long as the sap circulates the scale continues active, and so long as there is foliage it is not too late to spray.

Begin, then, as soon after the middle of October as possible, on those trees that then mature and begin to drop their foliage. When that period of maturity has arrived the functions of the leaf have been accomplished, and any scalding or scorching does not affect the tree itself. It is better to wait until the leaves are partly off to facilitate getting at all points on the twigs and branches, but a little foliage is really an advantage, because it catches spray that would otherwise go through the bare wood, and some of the drip will reach the tips and branches. If the infestation is very bad, it will be better to duplicate the application two weeks later, if oil was used, or in the spring, if one of the lime and sulphur combinations was employed.

I have suggested using that insecticide with which the grower is most familiar, but personally I much prefer the mineral oils, clear or in combination.

SAN JOSÉ SCALE.

METHODS OF TREATMENT IN CONNECTICUT.

BY W. E. BRITTON, STATE ENTOMOLOGIST.

In Connecticut, the San José scale is combatted in the orchards by spraying, and in the nurseries by the destruction of infested stock and the fumigation of other stock which, though suspected of being infested, has not actually been found so. For spraying work in orchards, lime and sulphur mixture is the material used. Some growers still add salt, but many are omitting it, as there seems to be no benefit from it. In the large orchards the boiled mixture is used. In some smaller orchards and in gardens, the self-boiled mixtures are employed. Some of these are made up with caustic soda, some with salsoda, and some with sodium sulphide. All seem to give fairly good results where carefully and thoroughly prepared and applied. The kerosene-limoid treatment was given a thorough trial in several orchards last spring, but was less satisfactory than the lime and sulphur mixtures. The so-called "soluble petroleum" compounds have been used in a small way, and we expect that they may be of considerable value for spraying trees and shrubs in ornamental plantings, where the lime and sulphur mixture causes an ugly appearance by coating the specimens white.

INSPECTION AND FUMIGATION.

In the nurseries of Connecticut, scale is often introduced on plants which are purchased and set out on the grounds, and there is so much of it in the state that it would be apt to get into these nurseries from surrounding infested trees were not the utmost pains taken to keep the nursery stock free. The nurseries are inspected each year, usually in September or October, and all infested plants destroyed. In all the larger nurseries, especially where fruit stock is a specialty, there are now adequate fumigating houses carefully constructed, so that the entire output may be fumigated; and where the scale is found on any of the stock, the owners are required to fumigate the whole of it before shipping any away. A few of the small nurseries, dealing mostly in ornamental plants, have not yet equipped their nurseries with fumigating facilities. In some of these cases we have required certain kinds of plants to be fumigated, and have superintended the operation, using packing boxes which were made tight with heavy paper. Each year, when the inspections are made, we find certain ornamental plants that are infested in most of these nurseries; and here I would like to call attention to a few practices which the nurseryman might easily carry out, that would do away with most of these cases of infestation, and would prevent the destruction annually of considerable stock.

SUSCEPTIBLE PLANTS.

Such plants as Japanese quince, Cotoneaster, purple-leafed plum, Crataegus, red-twigged dogwood, Rosa rugosa, and some others, are almost certain to become infested if left for any length of time in one place, if the scale occurs in the vicinity. Now, the nurseryman might keep his stock of these varieties much lower than he does at present; that is, either not keep them at all growing on his grounds, or else keep a very few plants of each kind, and buy in others from non-infested localities in order to supply his needs. Such plants as Rosa rugosa and the red-twigged dogwood (and we might also include the species of Symphoricarpus) will not become serious scale-breeding plants if they are cut back every year, or at most, every second year, and the shoots forced to grow up from the roots. I believe it would be possible, if I were managing a nursery, to so handle these plants, even without any spraying or fumigation, as to keep the scale in check to such an extent that very little of it would be found by the inspectors, and at the same time do away with the destruction of the stock itself.

PLANTS MORE OR LESS IMMUNE.

Then, too, I believe that the nurserymen can do much good by advising their customers to plant such shrubs

and ornamental trees as do not become seriously attacked and injured by the scale. In this list we may include the hydrangea, forsythia, lonicera, barberry, kerria, wiegela, calycanthus, Japanese snowball, deutzia, aralia, stephanandra, spiræa and many others.

Lists of those plants infested, and those which are practically free from attack, were published by the Connecticut Agricultural Experiment Station in its Report for 1902, and will be sent to anyone who applies for them as long as the supply lasts.

FUMIGATION COMMENDABLE.

P. J. PARROTT, NEW YORK STATE EXPERIMENT STATION, GENEVA, N. Y.

The fumigation of nursery stock before shipment is now practised by many nurserymen in the eastern states. This is done in response to the requests of fruit growers who believe, and justly so, that many destructive pests may be distributed through the trade. The growing demand for treated stock makes the fumigatorium, or "gas house," a necessary adjunct to the modern nursery plant, if one wishes to cater to public demands or to successfully meet competitors practising fumigation. While it is true that the treatment of stock by hydrocyanic acid gas is not an absolute guarantee of the immunity of the trees from insect pests, still it is a commendable practice. The gas is one of the most penetrating and destructive of our insecticides, and all trees that have been carefully treated by it should be free from the insects commonly disseminated by the nursery trade. To obtain the best results the work should be done under the direction of a competent person, who should select the stock to be treated and direct the various details of compounding the chemicals and handling the fumigatorium.

The essentials for fumigating nursery stock with hydrocyanic acid gas are: (1) Chemicals; (2) a suitable vessel in which to mix them; and (3) an air-tight box or chamber to hold the stock while it is being treated.

CHEMICALS AND FORMULA.

The chemicals that are needed are: (1) Fused cyanide of potassium; (2) sulphuric acid; and (3) water. The cyanide should be guaranteed 98-99 per cent., while the best grade of sulphuric acid, having a specific gravity of at least 1.83, should be used. These chemicals may be purchased from local druggists or from wholesale dealers in druggists' supplies. Tap, well, or rain water, that is clean, may be used. In handling the chemicals care should be exercised not to spill the acid upon the clothing or the person. The cyanide is a deadly poison, and should be carefully labelled and stored, when not in use, in a safe place to prevent accidents.

The following formula is recommended for use in fumigating clean, well-matured dormant stock. For each one hundred cubic feet of space in the room use

Potassium cyanide	1 oz.
Sulphuric acid	2 ozs.
Water	4 ozs.

For combining the chemicals one should use earthenware dishes or jars of about one gallon capacity. There should be one vessel for each pound of cyanide. If more than one jar is used, distribute them at even intervals in the room. Place in each jar the required amount of water, and then gently pour in the acid. When the nursery stock is in place and everything is ready for the final operation, drop in the cyanide which is contained in a paper bag. For the safety of the operator, each bag should be suspended by a string over the jar containing the liquids. The main supporting string may be operated from the outer door, so that all the bags may be lowered at the same time in their respective vessels. The door should then be closed, displaying a danger card. After thirty or forty minutes of fumigation, all doors and windows should be opened and the room should be ventilated for at least ten minutes before anyone enters. The gas is most deadly, and one should be very careful not to get a breath of it.

The room or box to be used for the treatment of stock should be air-tight. Provision should be made for quick and thorough ventilation. The fumigatorium should be in a convenient position, and should be located so that the escaping gas will not interfere with other operations of the nursery. Descriptions of practical fumigating plants are given in Bull. 174 of the New York Experiment Station.

THE WOOLLY LOUSE AND PLANT LICE IN THE NURSERY.

[IN ANSWER TO INQUIRY.]

P. J. PARROTT, NEW YORK STATE EXPERIMENT STATION, GENEVA.

There are two very common pests of nurseries and are responsible for extensive losses to the trade. The woolly louse is especially injurious to young trees, and sometimes does serious injury to new grafts. Frequently the roots and branches of young and old trees are attacked, causing gall-like swellings. This pest is easily recognized by the white wool-like substance which the lice secrete and which clings to their bodies. When occurring upon the roots the insect may be largely controlled by the application of finely ground tobacco dust about the roots. This is cheap and is said to be worth all it costs as a fertilizer, independent of its excellent insecticidal qualities. For the protection of seedlings, scatter a liberal quantity of the tobacco dust into the furrow, covering with a light quantity of earth, when the stock may be planted. If branches are attacked, they should be trimmed off, where practicable, and burned. The lice adhering to the parts of the plant above ground can be quite easily destroyed by thorough spraying with whale-oil soap, using about one pound of soap dissolved in five gallons of water, or with kerosene emulsion at the rate of one gallon of the emulsion diluted with five gallons of water. When trees are attacked with a few colonies of lice, apply pure kerosene to the infested parts.

PLANT LICE, APHIS.

To protect trees from the plant lice watch the trees carefully for the first appearance of the insects when applications of whale-oil soap, using one pound of soap dissolved in five gallons of water, or of kerosene emulsion, one part to five parts of water, should be made. The lice usually appear when the buds are much swollen or are about to burst. At this time the lice are exposed and are easily reached by the sprays. If the treatment is delayed the lice will soon be protected by the curled leaves, when it is exceedingly difficult to obtain satisfactory results. The secret of success in fighting this pest is early and thorough spraying. In spraying trees in foliage, direct the spray to the undersides of the leaves. Soaps are somewhat variable in their composition, so the operator should watch his results and be governed accordingly in his future work. The proper thing to do is to apply the mixtures, prepared in the proportions given, to a small number of trees. After a few hours make an examination of the trees to see whether or not the spray has been effective. If so, the mixture may be used at that strength for the treatment of the remainder of the trees.

NURSERY INSPECTION AND ITS RELATION TO THE INTERSTATE SHIPMENT OF STOCK.

BY A. F. BURGESS, CHIEF INSPECTOR OF NURSERIES AND ORCHARDS, OHIO STATE BOARD OF AGRICULTURE.

The principal cause for the enactment of nursery inspection legislation was to protect fruit growers from receiving stock infested with the San José scale. The laws were drafted so as to include dangerously injurious insect pests and plant diseases, and have been the means of preventing the spread of many pests, and have resulted in the growing of cleaner and better stock than heretofore. At the time that many of the laws in the eastern states were framed, this pest was known to be present in only a few localities, and as satisfactory control measures had not been discovered, its presence was greatly feared by fruit growers.

The inspection and certification of stock was welcomed by the best nurserymen in the country, as they saw in it not only a method of securing entrance for their stock into states where laws had been enacted without danger of interruption in transit, but also an opportunity for using the certificate granted as a means of satisfying customers that their stock was healthy, and hence desirable to purchase. These state laws have been of immense value in controlling the spread of this insect, as careful observation will show that states not infested, that enacted laws promptly, are now comparatively free from San José scale, while those where the enactment of laws was delayed have become very generally infested. It is true that in some states the scale has increased where orchards were infested from stock which was among the first infested shipments to be disseminated in the eastern states, owing principally to the fact that several years were required to secure cheap and effective measures for holding the insect in check.

For a time the expectations of the nurserymen were realized in regard to shipping their stock to other states, but in recent years there has grown up in different states sets of regulations especially adapted to the local conditions. This tendency of legislation and requirements of the inspection departments has been, it would seem, to hedge about each state with a system of such regulations as would allow the inspector to prevent stock from coming into his state unless the certificate of the nurseryman had been previously scrutinized and accepted by him.

The writer is aware of no cases where malice or desire to cause discrimination as between nurserymen of different states has been practised, but believes that these requirements have been made with the sole idea of protecting the citizens of the states concerned. The question now arises as to whether a reasonable protection cannot be secured to prevent the introduction of undesirable pests which will meet with the endorsement of both the inspectors and the nurserymen, without working injustice to any of the interested parties.

Simplicity of methods in dealing with interstate business is highly desirable, as it will prevent many misunderstandings and losses, and much annoyance can thus be avoided. A movement in this direction was made at the last meeting of the American Association of Horticultural Inspectors, held at Washington, D. C., in November, 1905, when a committee of the National Nurserymen's Association was present on invitation, and matters of common interest were discussed. A committee of inspectors, consisting of Mr. R. I. Smith, of Georgia, Mr. R. S. Mackintosh, of Alabama, and Mr. Wilmon Newell, of Louisiana, was appointed to attend the meeting of the Nurserymen's Association at Dallas, Texas, next June.

At the Washington meeting the following resolution was passed, relative to securing, if possible, a uniform system of tags to be used by nurserymen on stock shipped to such states as require them:

"RESOLVED, that a committee of three be elected by ballot by this Association to have charge of the issuing of one tag, good to admit nursery stock into all states requiring tags. Said committee to elect a secretary who shall secure a statement of the official inspectors of the state of each nursery wishing to do inter-state business as to the exact condition of the said nursery, and if satisfactory, to issue the nurserymen the official tags of the committee at such cost as the committee may decide, in case the conditions of such nursery are such as to make allowing his inter-state business doubtful, the statement of his condition must be submitted to all members of the committee. The committee also recommends that a designated color of tags or certificates be used by this committee and a separate color by all state inspectors for all other shipments of nursery stock not using inter-state tags, for each shipping year. And we recommend the adoption of this measure by all boards of control or states involved."

The committee, Dr. S. A. Forbes, Urbana, Ill., Mr. R. I. Smith, Atlanta, Ga., and the writer, is, by means of correspondence, securing all the data possible as to the desirability of adopting such a measure.

At the recent meeting of the Association of Economic Entomologists, held at New Orleans, in January, 1906, the matter of national control of insect pests was discussed, and a committee appointed to take the matter under consideration. This committee, of which Professor E. D. Sanderson, of Durham, N. H., is chairman, proposes to investigate the situation in order to determine the feasibility of national quarantine for insect pests at the ports of entry, uniform methods of certification of nursery stock in interstate shipments, and the practicability of taking measures to control introduced pests.

This committee will consult with the committee on uniform tags already referred to, and it is hoped that some improvement in methods will be accomplished.

There is little difference of opinion as to the desirability of uniform methods of inspection and certification, so far as it relates to the nursery business, as such methods would be of direct benefit to every grower who handles interstate shipments. One of two ways appears to be feasible: either such shipments must be controlled and certified to by officials of the national government, or the several states must make the best arrangements possible by mutual agreement, which in many cases involves changes of laws, so that as little annoyance as possible will result to shippers.

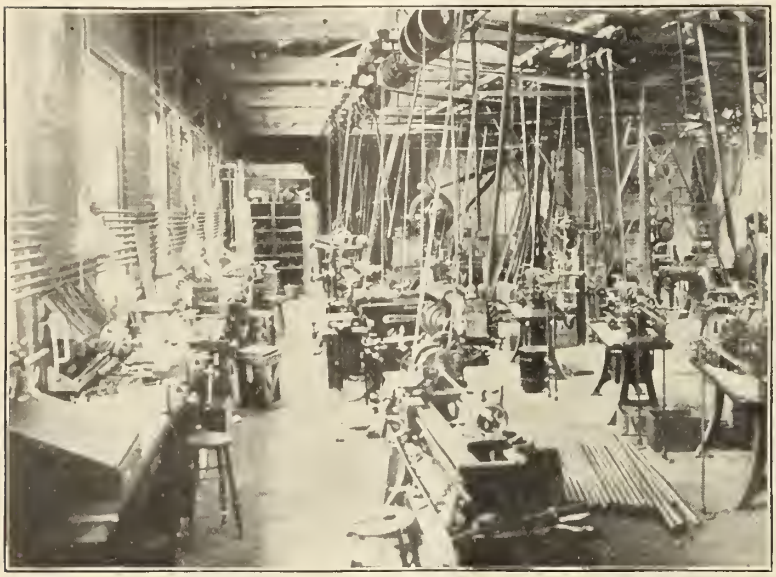
BUDS INJURED.

It is unquestionably true that a large percentage of peach buds in Eastern United States are injured or killed by abnormally warm weather.

Spray Machinery.

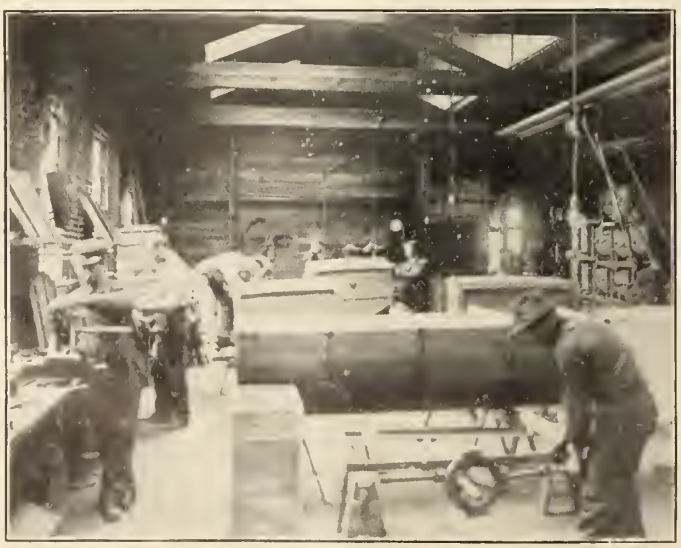
E. C. BROWN COMPANY, ROCHESTER.

The growth of the manufacturing end of spray machinery enterprises has been very remarkable in recent years. One of the best examples of the results of energy, coupled with the exploitation of useful and efficient machines, is



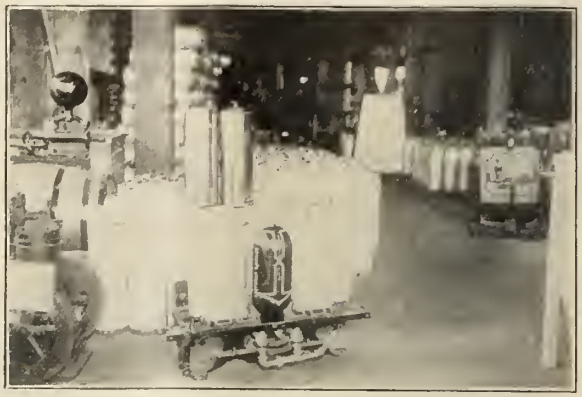
Where the metal parts are made in the E. C. Brown Company factory.

found in connection with the business of the E. C. Brown Company, of Rochester. This company makes a specialty of several types of pumps. One of these is very popular, and known as the auto-spray. It is a hand, compressed-air sprayer, and is efficient and entirely satisfactory for greenhouse or garden purposes. Other types



The woodwork and tank part of the factory.

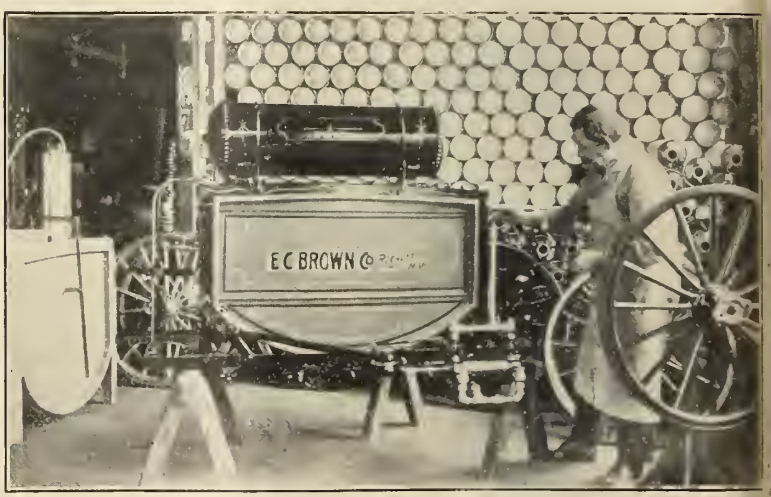
of spray pumps manufactured by this firm are the hydraphilex, a hand-power pump for orchard uses, attached to barrel or tank made in different sizes. The auto-spray is the generic name for the pumps manufactured by this company, and the specific name is either designated by number or special designation. This firm is specializing in machines for potato and other field crops, and is prepared to turn out an implement specially designed for the control and treatment of enemies of the nurseryman's



The finished product—the hand auto-spray pump.

crops. They also issue a spray calendar with formulas, which has been prepared under the direction of Professor M. V. Slingerland, of Cornell University.

E. C. Brown Co. are liberal users of NATIONAL NURSERYMAN advertising space, and we feel that those who have any use for spray machinery will do well to at least



Putting on the finishing touches in the E. C. Brown Company factory.

communicate with this firm and find what it offers for 1906. We call the attention of nurserymen especially to a traction power machine that is used for spraying nursery stock under very high pressure.

THE DEMING GASOLENE ENGINE SPRAYER.

This company has been in the business of manufacturing pumps and hydraulic machinery at Salem, Ohio, for a number of years. The gasolene engine sprayer was put upon the market several years ago, and has been constantly improved each season. Among the points claimed for this engine are compactness, quality of workmanship, strength and durability. The gearings are cut and the bearings are rabbitted. Probably the weakest feature about most of the spray machinery on the market is imperfections in manufacture. All the weak points have been carefully studied and strengthened by this firm, and the pump they now place upon the market is one in which they have a great deal of confidence.

Spray Machinery—Continued.

A GAS POWER SPRAYER.

One of the newer innovations in the last four or five years is the application of carbonic acid gas to the work of spraying. The Messrs. Freeman, of Middleport, N. Y., were the men who conceived and put into execution this idea. Compressed air had been previously used, but no one had thought of employing the material used in charging soda-water fountains. The Niagara Sprayer Company constructed a strong metal cylinder supplied with pressure gauge, connected a tube of carbonic acid gas with proper controlling cocks, and had an apparatus which applied the spray without the use of an engine or pump. Various modifications of this apparatus have been made since it was first designed. It is now manufactured in four different sizes, 50, 100, 150 and 200-gallon size. Among the features claimed for it are adaptability, simplicity and economy. Some of these claims are self-evident, and all of them are no doubt well founded.

THE FRIEND SPRAY PUMP.

Over at the little town of Gasport, in Niagara County, there is located one of the important manufactories of spray machinery. For many years the "Friend" hand pump has been well known and deservedly appreciated by orchardists in western New York and throughout the country generally. This company is one of the companies who believe in the gasolene engine, and the success which is meeting their efforts in the manufacture of an engine suited to orchard spraying is most gratifying. Mr. C. H. Williamson, of Quincy, Illinois, one of the largest apple growers of the middle west, has during the last year or two bought six of the "Friend" gasolene engines for use in his extensive orchards, and finds them most efficient. Durability and power are the mottoes of the manufacturers of these pumps, and they are living up to their motto and giving satisfaction to their patrons.

SUGGESTIONS ON SPRAYING.

By a Nursery Inspector.

The business of the nurseryman differs very much from that of any other man engaged in tilling the soil. It is a rare occurrence that one finds a farmer, dairyman, fruit grower or market gardener who is first a business man, then a grower. With the nurseryman, business has become so specialized, so intensified, and crowded into so short a period of time, that during the packing season, all things which are not "ready cash" are booked for future delivery. This is the fate which, in most cases, has been dealt out to the spraying operations. But at what enormous expense in the long run!

In weighing this question, we must bear in mind that in most cases where large concerns are concerned, we have two distinct types of business, namely: first, those men who store all stock in the fall and deliver early; and second, the men who do not begin to ship until the season opens. It is far from my intention to recommend the storage of *all* stock and its delivery from the packing house, however, I must say that if such a method will make available a few good men during March and April for spraying work, I would favor a certain amount of it. The shipping season in New York runs well into May, and as the entire force is engaged, during a large part of this season, spraying—the insurance—is neglected.

ENEMIES PREVENTED.

Even many people who are quite familiar with all details of the nursery business do not realize the importance of *early preventive* spraying. They do not grasp, yet the fact that an expenditure of $100 may realize a gain of $500. *Prevention* should be the motto. Such troubles as shotholefungus, and other leaf-troubles of plum, cherry and pear, peachcurl, blistermites on pear, and many rose diseases can only be prevented by spraying while the packing force is yet at work. Late spraying for these particular troubles does not pay. The nurseryman must secure healthy foliage to build up wood growth, and he wants that growth early as possible. To neglect the first spraying is very poor business policy.

APPARATUS NEEDED.

If antiquated machinery and out-of-date methods of spraying are employed, the expense and the shortage of labor make it prohibitive. However, nursery stock can be sprayed efficiently and rapidly by the use of machines which spray four to six rows at the same time. Manufacturers have made great improvements in the quality of their pump parts this winter. A number of pumps have been placed upon the market which, with slight modification, can be used satisfactorily for wholesale spraying of stock. They should be changeable to meet the varying height of the trees as well as the distance between the rows.

If barrel pumps are to be used, don't buy one with the pump rigged inside of the barrel. It is difficult, in case of a stoppage, to get at its internal anatomy. Small obstructions will stop the whole force long enough to lose the money saved as a difference between a high grade and a lower grade pump.

TRAIN ONE MAN FOR THIS WORK.

In addition, I would ask nurserymen to consider the advisability of training one of their young men specially in this work. Send him to an agricultural college for a winter course, and give him all facilities on his return. Make a contract with him for a period. The expense is not great. The gain will be considerable; for only by a thorough knowledge of the philosophy and principles underlying our work are we enabled to get the best results.

C. BÜES.

THE NATIONAL NURSERYMAN,
Rochester, N. Y.

Gentlemen:—We have had extraordinarily mild weather here this winter. Yesterday and to-day are almost summer days. The mercury did not reach the freezing point last night and not even a white frost on the ground this morning. Trade for the coming spring promises to be very good.

GEO. H. WHITING,

Yanktown, So. Dak.

A SWINDLING TREE AGENT.

We are informed by Messrs. Henry Lake Sons Co., of Black River Falls, Wis., that they have recently caused the arrest and secured the conviction and sentence of W. L. Waddell, on the charge of obtaining money upon fictitious and fraudulent orders. His plan of procedure was an exceedingly simple one. He simply filled out orders over fictitious names and addresses, forwarded these to the firm, and collected his commission. This went on until an investigation revealed the fact that he had been swindling very systematically for some time. The complainants discovered that he had previously swindled several nursery firms in Rochester in the same manner. These firms will be glad to know that Waddell is now convicted and under sentence of two and one-half years' service in the penitentiary in Waupon, Wis. The plaintiffs in this case say that he seems to be a professional crook in this line, and as they have a number of other charges against him they are inclined to think that he should be kept at work in Waupon for some time to come.

A FEW RECENT DEVELOPMENTS IN NURSERY LEGISLATION AND FUMIGATION.

There have not been many changes in the nursery inspection and fumigation laws of the different states. Those changes, as may be noticed in transactions, are mostly based upon the interpretation applied by the officials in charge. Arizona, Florida, Kansas, Nevada, New Mexico, No. Dakota, So. Dakota, Texas, Vermont, are without a definitely framed law. Wyoming has just enacted one requiring that a certificate of inspection be filed with the Secretary of the State Board of Horticulture at Laramie, by everyone engaged in the sale of nursery stock in that state. It also requires a license of $25.00 as well as a bond of $500.00. The license is good for two years but revokable at the discretion of said Board. Besides this, there are minute specifications of the contents of each package required, on specially prepared blanks, as well as monthly reports by the nurseryman. It appears wise for anyone who desires to do business in the state of Wyoming to ask the Secretary of the Board of Horticulture for detailed information.

There is no nursery law in Mississippi. However, there is a Cotton Bollweevil law which covers practically the inspection of all plants and trees shipped in. A proper certificate from a state entomologist or from U. S. entomological officers will, however, be accepted in most cases.

It is most certain that our present pandemonium of different laws with a multitude of different requirements, according to the notions of different legislatures and the respective entomologists, is very vague and unsatisfactory to both sides, nurserymen as well as inspectors, no matter how much good feeling may exist between them.

The chief objections are :

a. Too much red tape, caused by too many laws ;

b. Ineffective fumigation by men who do not understand the "why and how" of fumigation ;

c. The shipment of much uninspected stock under the inspector's certificate ;

d. The carrying of diseases from one state to another because they are not considered dangerous in one, while they are in the other ;

. The demoralizing effect of the existence of laws which are not enforced, or which sometimes cannot be enforced.

To remedy these conditions, I would propose for discussion among those interested, the following changes :

a. The establishment of a *national* rogues' gallery of insects and fungi ;

b. Inspection of all nurseries in every state, whether engaged in interstate commerce or not ;

c. The adoption of a uniform system of tags and certificates ;

d. The establishment of fumigating plants of the most improved type at shipping centers and so-called "ports of entry" into states, they being under the charge of *one* body of control and being manned by trained crews ;

e. The control of this system to be federal.

f. The expenses of this system to be borne partially by the federal government, partially by the respective state governments, they being assessed according to the amount of stock in annual trade.

Nurserymen do not object to protective nor to remedial insecticidal measures. They do object to the wading through a lot of perfunctory red tape and afterwards the obtaining of results far inferior to those which might be obtained without much of the detail which they have to observe now.

There is no doubt that fumigation is the most effective means, which we have, for the control of scale insects and many other noxious forms of the insect world. However, it does its best work only when many details are attended to, the observance of which is very difficult in many, even of the very best, nurseries.. I have observed, for a few years, both parties at issue. I have inspected nurseries as well as fumigated as an employee of nursery concerns. My conclusions are those of great dissatisfaction with the present status.

One of the most striking facts in regard to Cyanide fumigation has been brought out by the investigation of the Cyanide of Potassium used. The Ohio station and the Georgia station have worked on this problem. For the fumigation of nursery stock, Potassium Cyanide of 98% purity is an absolute necessity. Seventeen samples of Cyanide bought in different parts of Ohio were analyzed. The results in percentage were : Eight samples above 98%, the other nine were ; 31.65%, 31.05%, 31.05%, 97.8%, 93.6%, 50%, 44.7%, 97.2%, 45.6%, 93.2% respectively. This means that ten samples were fit for use and seven were of a very inferior grade. How can the nurserymen know which is which ? The results in Georgia were not quite as bad, but three samples out of thirteen were below 50%. The most common adulterant in these cases was Sodium Chloride—common salt.

It is often stated that the trees are injured by the Cyanide fumigation. If the operation is properly done, and according to rules ; if the trees are dormant and not evergreens, I believe that most of the injury, attributed to fumigation, is due to other causes. I believe also that certain evergreens can be successfully fumigated before growth begins ; it is simply a matter of experimentation. It would be very desirable in the case of white pines.

Concerning the fact the scale lice are not killed, even when 1 oz. Cyanide per 100 cubic feet for 40 minutes is used, I would ask the fumigator whether the trees were loose enough in the house to allow the fumes to pass freely among them. This is the most common fault.

Cyanide is not an absolute remedy ; but comes pretty close to it when all details are faithfully observed.

Ithaca, N. Y. C. BÜES.

Fruit and Plant Notes.

VARIETIES OF PEARS.

J. R. Cornell, the pear man of Newburgh, N. Y., would select the following varieties of pears, given in order of ripening, for planting in eastern New York : Bartlett, Worden, Seckel, Seckel, Bosc, Clairgeau, and Winter Nelis. If only four varieties were desired, the two last named would be cut out. Mr. Cornell is of the opinion that winter varieties of pears are not profitable.

BEST ROSES.

Mr. Alec Dixon of the Royal Nurseries, Belfast, Ireland, an expert on roses, recommends the following varieties among the newer kinds for trial : J. B. Clark, Jos. Hill, Betty, Mrs. Miles Canedy, and Countess of Gosford.

Among the hybrid perpetual novelties, he mentions M. H. Walsh, crimson ; Mrs. A. M. Kirker, pink ; Hugh Dixon, scarlet, and Hugh Watson, red.

Business Movements.

THE GERMAN NURSERIES, CARL SONDEREGGER, PROP., HAVE EXTENDED THEIR STORAGE CAPACITY.

"We found that we did not have room enough to manage our business right, so we built an addition of 74 x 60. All our storage rooms are on the top of the ground, and are built somewhat like an ice-house. We find this much handier than a dug cellar, as we can drive right through same and unload trees when hauled in from the nursery. We now have a railroad switch coming right up to our doors and can therefore load and unload cars very easy. Part of our house is two stories, and on the second floor, we have our seed business."

The Giles County Nursery Co. has removed from Lynnville, Tenn., to Pulaski, Tenn. In consequence of this move a quantity of Carolina poplar and apple trees of different ages are for sale at greatly reduced prices.

Nursery Regions.

FREDONIA, NEW YORK.

THE CENTRE OF THE GRAPEVINE AND SMALL FRUIT NURSERIES.

A certain Pullman conductor recently asked a passenger, "Where is Dunkirk?" This so roused the ire of a prominent Fredonia nurseryman that serious results were imminent for a moment. The incident impressed the Business Manager of the NATIONAL NURSERYMAN and he determined to locate Fredonia if possible and ascertain if its claim of being the center of the grapevine industry was well founded.

After a careful study of the map a little speck was discovered which proved to be the spot and a letter was despatched to "Papa" Josselyn enquiring how to reach his "farm" after arriving at the station. His reply was characteristic.

"HOW TO FIND ME."

"Our office is situated near the entrance of our beautiful cemetery, which is the liveliest place in town. Leave the electric car at Temple and Free streets, then follow the hearse."

We followed these directions and found the place, but it proved to be much more lively than directions indicated.

"Papa" received us with his usual "glad hand," and after we had listened to several of his "stories," for which he is famed, we were shown through two large cellars, filled to the roof with grape vines, (not juice) which were being sorted for shipment. We were told that the sorting would keep all hands busy until the last of March. We never saw so many grape vines before as were stored in these two cellars, and concluded that there were enough just there to supply the whole of the United States and several foreign countries—including New Jersey—thrown in for good count, but "Papa" quickly corrected this impression by telling us that they were pretty well sold out and in fact were short on some varieties. "Papa" had some more "stories," but we could not stay to listen to them.

Foster and Griffith was the next notch on our stick, and we were cordially received. Here also were cellars filled to overflowing and gangs of men busy sorting vines that showed by their vigor of top and root growth that Fredonia soil is as good as ever for the growing of grapevines. This firm also reports that sales were good and many varieties exhausted.

F. Schifferli was likewise busy and exhibited well filled cellars of good healthy stock. Trade with him this year is excellent, and orders far ahead of last year. He was also short on some varieties. Mr. Schifferli was suffering with a very bad cold but too busy to lay off and "doctor" it.

Our old friends, Wheelock & Clark, were discovered packing a car load of vines, which were shipped that day, and their packers were also at work boxing orders for early shipment. More cellars full of vines and more reports of heavy sales and shortages of varieties until we began to think that the whole country was to be planted with grapevines.

Lewis Roesch does not do a very large business with the trade, as his stock is mainly consumed by his constantly increasing catalogue business, and from present indications he expects the coming season to far excel all previous years.

Our last call was on the T. S. Hubbard Co., and we were fortunate in finding both Mr. Pratt and Mr. Hart. More grapevines—stacks of them—all in the same vigorous and healthy condition as those we had seen before, and again the report of heavy orders and shortages of some varieties. Mr. Pratt stated that they expected to close out all their salable vines this spring.

By this time, night was drawing on and we found our way back to the railroad station, filled with the idea that there were more grapevines grown in Fredonia than any other spot in the country, and that the extreme modesty of the Fredonia nurserymen had prevented this fact from being properly known.

Tired by the day's exertion, our business manager indulged in a "nap" on his way back to Rochester and dreamed that he was umpiring a badger fight pulled off in "Papa" Josselyn's grape cellar. The dog had a collar made of grapevine roots and the badger had a bunch of grapes tied to its tail, and the prize was a "mug" full of unfermented grape juice.

The grape upon the grapevine grows,—
The bee it makes the honey,
But Fredonia grapevines are the stuff
That bring Fredonia growers money.

FIFTY YEARS OF ILLINOIS HORTICULTURE.

The last volume of the Illinois Horticultural Society contains a complete report of the fiftieth or semi-centennial meeting of the State Society and also reports of the three district meetings, with much other valuable matter, the whole forming a compendium of scientific and practical horticulture which every Illinois fruit grower should have. In addition to this there is a large amount of valuable historical matter which was collected especially for the semi-centennial meeting and for this volume, much of which is not available in any other form. The lists of fruit recommended, the reports of the experiment stations, the directions and formulas for spraying, dimensions of fruit packages, the scale of points for judging fruits adopted at the last meeting of the Society, are all valuable features of this volume. This report is mailed free to all members of the Society. The annual membership fee is $1.00. For further information, address the secretary.

L. R. BRYANT,
Princeton, Ill.

ORLANDO HARRISON, LEGISLATOR.

Baltimore papers inform us that Orlando Harrison is not in the Maryland legislature for conventional or decorative purposes. He is there to work for his constituents and the nursery interests at large. The railways now charge demurrage on cars not emptied promptly. Mr. Harrison proposes that the company pay demurrage when they do not furnish a car within forty-eight hours of the time the demand is made upon them, at the rate of $1 per day and any damage that may accrue to the shipper on account of such delay.

Mr. Harrison is also pushing good roads legislation in Maryland.

WABASH R. R.

will sell daily, until April 7th, low rate colonist tickets to points in California, Oregon and Washington. Rate from Buffalo $42.50. Reduced rates to intermediate points. Wabash runs free reclining chair cars. It is the most direct and comfortable route. Tuesdays, Thursdays and Saturdays (Midnight) Colonist sleeper from Rochester to Chicago, making connection with all Pacific Coast trains. See your Local Agent or write R. N. Collyer, General Agent, 287 Main Street, Buffalo, N. Y.

The Thomas Tree Baler and the Box Clamps so long used by the nurserymen of the United States and Canada, and made by Mr. J. W. Stevenson of Nebraska, have a fine reputation after long use. Mr. Stevenson, not having the time to look after the sales of these implements of the nursery trade, has arranged with Mr. E. G. Mendenhall, of Kinmundy, Ill., to take the sole charge of sales of same in the U. S. and Canada.

A. L. Miller, Brooklyn, N. Y. Enclosed find check for $1.00. Kindly renew my subscription for your paper for another year, with which I have been well pleased.

The National Nurseries, E. H. Balco, Prop., Lawrence, Kansas. We enclose New York draft for $1.00 for renewing our subscription for another year. The journal has improved greatly during the past year and we shall continue to give it our hearty support.

A. L. Zimmerman, Weatherby, Mo. I enclose $1.00 to renew subscription to the NATIONAL NURSERYMAN for another year. Every nurseryman ought to have it to keep in touch with what is being done by his fellow nurserymen.

J. Wragg & Sons Co., Waukee, Iowa. Find enclosed our check for one dollar in payment for the NATIONAL NURSERYMAN for the year till January, 1907. We do not feel that we could possibly get along without your valuable paper, which is always welcome to our desk.

Lack of space in this issue cuts out several important articles and reports which will appear in the April number.

The NATIONAL NURSERYMAN'S Tabulation of the Regulations Governing the Sp

States and Territories.	No law.	Fumigation required.	Must file a duplicate certificate.	Upon receipt of nursery stock inform:	Special Laws.	Certificates are required and honored.	Obtain information from:
ALABAMA			File certificate		A *signed* copy of certificate must be filed. Send money order in advance for official tags; 65c. first 100, 35c. each additional 100, $2.25 per 1000.	Yes.	State Horticulturist, Auburn, Ala.
ARIZONA	No law.						Director of Experiment Station, Tucson, Ariz.
ARKANSAS			Yes.		Transportation company must not deliver goods until certificate is furnished.	Yes.	State Entomologist, Fayetteville, Ark.
CALIFORNIA		Will be disinfected at destination as well as inspected.		Deputy Commissioner of Horticulture, Ferry Building, San Francisco.	Each package must bear name and address of consignor and consignee. No apricot, peach or nectarine trees or cuttings, grafts, buds, etc., will be admitted from districts where Rosette or Yellows exist.	No.	Deputy Commissioner of Horticulture, Ferry Bldg., San Francisco, Cal.
COLORADO				State Board of Horticulture, Denver, Col.	All shipments are subject to inspection by county inspectors.	No.	State Board of Horticulture, Denver, Col.
CONNECTICUT		Yes.			Treatment is at the discretion of the State Entomologist.	Inspection and fumigation certificate required.*	State Entomologist, New Haven, Conn.
DELAWARE		Yes.			Inspection must not have been made before August 1st; certificate dated September 1st.	Inspection and fumigation certificate required.*	State Entomologist, Dover, Del.
FLORIDA	No law.				Certificates to Florida nurserymen are issued by the State Entomologist.		State Entomologist, Lake City, Fla.
GEORGIA		Yes.	File certificate with Entomologist and secure tags.		Fumigation must be done according to instructions furnished from Georgia.	Official Georgia tag and inspection certificate *signed by the nurseryman.*	State Entomologist, Atlanta, Ga.
IDAHO		Yes.			All nurserymen doing business in this State are required to furnish a surety bond in the sum of $1,000 - conditioned upon the faithful compliance of the law. Requirements are: 1. All representatives must have a certificate showing that their firm or firms have given bonds; 2. That the stock being shipped in has been examined by a duly authorized officer, and a certificate of inspection attached to each package or shipment; 3. All trees, shrubs, plants, etc., must be true to name; 4. Any pit fruit coming from sections where peach yellows are known to exist is prohibited from entering. Shipments from sections where oyster shell bark louse or pear blight exist prohibited.	Inspection and fumigation certificate required.*	State Horticultural Inspector, Boise, Ida.
ILLINOIS					State Entomologist inspects nurseries in the State.	Yes.	State Entomologist, Urbana, Ill.
INDIANA					State nurseries shall be inspected at least once a year. Every package shipped into the State should be labeled with the names of the consignor and consignee and a certificate of a State or Government inspector of current year's date.	Yes.	State Entomologist, LaFayette, Ind.
IOWA					Iowa nurseries are inspected at the owner's request; shipment without inspection prohibited.	Yes.	State Entomologist, Ames, Ia.
KANSAS	No law.						State Nursery Inspector, Manhattan, Kan.
KENTUCKY			File copy of certificate to avoid delay.			Certificate of inspection and list of contents.	State Entomologist, Lexington, Ky.
LOUISIANA					The Entomologist has power to require fumigation.	Yes.	State Entomologist, Shreveport, La.
MAINE		Yes.				Either inspection or fumigation certificate.*	Commissioner of Agriculture, Augusta, Me.
MARYLAND		Yes.	File copy of certificate.		Each shipment must bear the names of the consignor and consignee. Nurseries inspected at least once in six months.	Yes.	State Entomologist, College Park, Md.
MASSACHUS'TS						Either inspection or fumigation certificate.*	State Nursery Inspector, Amherst, Mass.
MICHIGAN		Yes.	File copy of certificate to avoid delay.		Nurseries are subject to inspection; infested trees must be destroyed and the remainder of the stock within a half mile must be fumigated. Shipments into the State must bear on every package, plainly labeled, the names of consignor and consignee, statement of contents, and an official certificate showing that the contents have been inspected and properly fumigated. All nurserymen, whether residents of Michigan or other States, who wish to grow or sell stock within the State, must obtain a license from the State Board of Agriculture, for which the fee is $5, and a bond of $1,000 must be filed. A license will not be granted until a State or Government inspection certificate has been filed.	Inspection and fumigation certificate.*	State Inspector of Nurseries and Orchards, Agricultural College, Mich.
MINNESOTA					State Entomologist shall inspect nurseries when he believes it necessary.	Yes.	State Entomologist, St. Anthony Park, Minn.
MISSISSIPPI	Cotton Boll-weevil law.				Importation from cotton boll-weevil infested districts of Texas and Louisiana prohibited, unless accompanied by U. S. Government Entomologist certificate.		State Entomologist, Agricultural College, Miss.
MISSOURI					Must bear names of consignor and consignee.	Yes.	State Entomologist, Columbia, Mo.

CANADA—Within the Province of Ontario all nursery stock, except greenhouse plants, herbaceous perennials, herbaceous plants, conifers, bulbs and tubers, must be fumigated before shipment. Shipments into Canada must be addressed so as to enter Canada at one of the named ports of entry, where the stock will be unpacked and fumigated by the authorities. Ports of entry from March 15th to May 15th, in the Spring, and October 7th to December 7th, in the Autumn, are: St John, N. B.; Jt. Johns, Quebec; Niagara Falls and Windsor, Ontario; Winnipeg, Man. During the Winter months only from October 15th to April 15th, at Vancouver, B. C. Dominion Entomologist, Ottawa, Ontario.

States and Territories	No law.	Fumigation required.	Must file a duplicate certificate.	Upon receipt of nursery stock inform:	Special laws.	Certificates are required and honored.	Obtain information from:
MONTANA		Yes, at destination.		Inform State B. of Hort. 5 days before shipment arrives, giving date, R. R. and destination.	$10 charged per carload for inspection and fumigation. All packing material must be burned immediately when emptied. All nursery stock, shipped in, shall come through one of the quarantine stations: Miles City, Billings, Dillon, Missoula, Kalispell, Great Falls, Glasgow	No.	Secretary State Board of Horticulture, Butte, Mont.
NEBRASKA					State nurseries are inspected by the Entomologist.	The Entomologist desires a certificate.	State Entomologist, Lincoln, Neb.
NEVADA	No law.						Director Experiment Station, Reno, Nev.
N. HAMPSHIRE					All nurseries must be inspected once a year or stock fumigated.	Certificate of inspection or fumigation.*	State Nursery Inspector, Durham, N. H.
NEW JERSEY			It is advisable to file certificate.		Florists' stock is exempt. State whether fumigated or not. Owners must suppress injurious pests on their premises.	Certificate of inspection required.	State Entomologist, New Brunswick, N. J.
NEW MEXICO	No law.						Director Experiment Station, Mesilla Park, N. M
NEW YORK		If shipped in from other states.		Transportation Company will notify Com. of Agri. Albany	Certificate required within the state. Nurseries within ½ mile from San José scale infestation must fumigate.	No.	Commissioner of Agriculture, Albany, N. Y.
NO. CAROLINA		Not absolutely but advisable to avoid delay.	File certificate.		Annual inspection.	Certificate of inspection. Fumigation desired.	State Entomologist, Raleigh, N. C.
NO. DAKOTA	No law.						State Entomologist, Agricultural College, N. D.
OHIO			☞		Packages must bear name of consignor and consignee. Agents must file a sworn statement before delivery that stock is covered by a certificate. Blanks will be furnished.	Require certificate of inspection or fumigation.	Chief Nursery Inspector, Columbus, O.
OKLAHOMA			It is advisable.			Inspection certificate.	Director Experiment Station, Stillwater, Okla.
OREGON		All stock grown on appleroots must be fumigated.		Secretary State Board of Horticulture, Portland, Ore.	All shipments must be inspected at quarantine stations regardless of certificate.	☜	Secretary State Board of Horticulture, Portland, Ore.
PENNSYLV'NIA					Nurseries inspected once a year. Shipments must bear names of consignor and consignee.	Certificate of inspection.	Secretary of Agriculture, Harrisburg, Pa.
RHODE ISLAND					Fumigation certificate *may* take the place of inspection. Nurseries inspected each year.	Either inepection or fumigation certificate.*	State Nursery Inspector Kingston, R. I.
SO. CAROLINA		Yes.	File certificate and secure tag.		Nurseries must be inspected annually. All persons outside the state must register a copy of their certificate of inspection, furnished by the authorized official of the state in which he resides, with the chairman of the board of entomology, which copy shall state that in addition to inspection the nursery stock has been fumigated under the direction of the official issuing the certificate.		State Entomologist, Clemson College, S. C.
SO. DAKOTA	No law.				State nurseries are inspected.		State Entomologist, Brookings, S. D.
TENNESSEE					Infested stock, whether certified or not, is subject to confiscation.	Yes. Certificate of inspection.	State Entomologist, Nashville, Tenn.
TEXAS	No law.						State Entomologist, College Station, Texas.
UTAH		Yes.				Require fumigation certificate.	State Board of Horticulture, Salt Lake City, Utah.
VERMONT	No law.				State nurseries are inspected upon request.		Horticulturist, State Experiment Station, Burlington, Vt.
VIRGINIA			File certificate and secure Va. tags.		Nurseries are inspected at least once each year. Unlawful for any person to sell or deliver any nursery stock, unless he shall first procure from the Auditor of Public Accounts, Richmond, Va., a certificate of registration, which certificate shall contain such rules and regulations concerning the sale of nursery stock as the Board of Crop Pest Commissioners may prescribe. Registration fee is $20 for principals, with duplicates for agents free.	Yes. Inspection certificate.	State Entomologist, Blacksburg, Va.
WASHINGTON			No.	Inform Commissioner of Horticulture, Tacoma, before shipment.	"Any person, firm or corporation, agent or solicitor to engage in the business of selling nursery stock" shall apply to the Commissioner of Horticulture, file a $2,000 bond and pay a license fee of $5 for nurserymen and dealers, and $2,50 for each agent's duplicate license, biennially. Shipments into the state must be preceded by a notice of intention to do so and names of nurserymen and place of delivery must accompany such notice.	No.	Commissioner of Horticulture, Tacoma, Wash.
W. VIRGINIA		Yes.	☞		Every nurseryman or dealer employing agents, before having authority to do business in any county of the state must take out a license in such county and pay the sheriff a license fee of $10; and the principal shall file with the clerk of the county court of each county in which he may have salesmen a list of his agents in said county. Nurseries are inspected annually.	Certificate of inspection and fumigation.*	Director of Experiment Station, Morgantown, W. Va.
WISCONSIN					Nurseries are inspected each year.	Yes.	Horticulturist, State Experiment Sta. Madison, Wis.
WYOMING			Yes.		Require a license ($25.00) and a bond ($500,00). License is good for two years, revocable at the discretion of the Board of Horticulture. Prescribe tags and monthly report. Write for copy of regulations.	Yes.	Secretary Wyoming State Board of Horticulture, Larramie, Wyo.

*WHAT CONSTITUTES A FUMIGATION CERTIFICATE—An affidavit, executed before a Justice of the Peace, showing that the stock has been fumigated with hydrocyanic acid gas, using not less than two-tenths grams of potassic cyanide per cubic foot of space and exposing the stock to resulting fumes (in an air-tight compartment) for not less than forty minutes, will be accepted in lieu of an inspection certificate, wherever a "fumigation certificate" is accepted. The affidavit must clearly state the above points, and a copy must be attached to each package, bundle or box.

C. BUES.

Catalogues Received.

Winfield Nurseries, Cooper & Moncrief, Winfield, Kans. An illustrated catalogue of 32 pages, showing views of nurseries, orchards and store houses.

The Willis Nurseries, Ottawa, Kans. Catalogue of fruit trees and ornamentals.

Brown Brothers Company, Rochester, N. Y. General catalogue of nursery stock—fruit and ornamental trees, bulbs, small fruits, etc.

Geneva Nurseries, Geneva, Neb. No. 2 wholesale price list, spring 1906.

Greensboro Nurseries, Greensboro, N. C. Descriptive catalogue of southern and acclimated fruit trees, vines, plants, etc. Hardy market orchard fruit a specialty.

W. T. Hood & Co., Richmond, Va. Descriptive catalogue of fruit and ornamental trees, grapevines, shrubs, etc. Illustrated.

Chas. H. Manley, St. Johns, Mich. Catalogue of incubators, brooders, poultry houses and supplies.

F. W. Dixon, Holton, Kans. Nineteenth annual catalogue and price list of small fruit plants. Strawberries a specialty.

I. E. Ilgenfritz' Sons Co., Monroe, Mich. Illustrative descriptive catalogue of fruit trees, small fruits, grapevines, shrubs, etc.

Shady Hill Nursery Co., Bedford, Mass. List of young stock for planting in spring of 1906.

West Texas Peach Nursery, Rescue, Tex. Price list of budded trees, nuts, scions and buds.

Western Reserve Nurseries, Perry, Ohio. Wholesale trade list, spring of 1906. Also a surplus list of articles for spring of 1906.

The Henry Philipps Seed and Implement Co., Toledo, Ohio. Garden, field and flower seeds.

Snow Hill Nurseries, Snow Hill, Md. Catalogue of peach, plum, pear trees, grapevines, etc.

Oregon Nursery Co., Salem, Ore. Descriptive catalogue, showing trees fruiting at two years. Maynard plum circular.

L. J. Farmer, Pulaski, N. Y. Catalogue of strawberries, raspberries, asparagus, grapes, etc.

Vaughan's Seed Stores, New York and Chicago. 1906 catalogue of plants and seeds.

Mount Arbor Nurseries, Shenandoah, Ia. Wholesale trade list, spring of 1906.

Harlan P. Kelsey, Boston, Mass. List of superfluous stock, including deciduous and evergreen trees and shrubs. A large assortment of native plants.

M. Crawford Co., Cuyahoga Galls, O. 1906 catalogue of strawberry plants and gladiolus bulbs.

Lewis Roesch, Fredonia, N. Y. Descriptive catalogue of grapevines and general nursery stock, spring 1906.

Dwyer's Orange County Nurseries, Cornwall, N. Y. General catalogue of fruit trees, small fruits, shrubs and ornamentals.

Mount Arbor Nurseries, Shenandoah, Ia. Wholesale price list of grafts, seedlings, hedge plants, etc.

Forest Nursery & Seed Co., McMinnville, Tenn. Surplus wholesale trade list for the winter of 1905 and spring of 1906.

Knox Nurseries, Vincennes, Ind. Illustrated descriptive catalogue of fruit and ornamental trees, small fruits, plants, roses, etc. 72 pages.

The Fraser Nursery, Huntsville, Ala. Surplus price list No. 2, February 1st, 1906. Also Huntsville Wholesale Nurseries price list, fall of 1905 and spring of 1906. January, 1906.

A. T. Cook, Hyde Park, N. Y. Illustrated catalogue of money-saving seeds.

The Griffing Bros. Co., Jacksonville and Miami, Fla. Catalogue of trees and plants for practical purposes.

Chattanooga Nursery, Chattanooga, Tenn. Catalogue of fruits, ornamental trees and shrubs. Illustrated.

W. N. Scarff, New Carlisle, O. Catalogue of fruits, ornamental trees, vegetable seed, etc.

German Nurseries, Beatrice, Neb. Catalogue and price list for 1906 Profusely illustrated. 72 pages.

J. G. Harrison & Sons' Nurseries, Berlin, Md. Catalogue of small fruits, fruit trees, shade and ornamental trees.

The Storrs & Harrison Co., Painesville, O. Catalogue No. 1. Fiftieth anniversary catalogue of fruit and ornamental trees, shrubs, roses, perennial plants, etc. Handsomely illustrated. Contains index. 112 pages. Catalogue No. 2. Illustrated catalogue of fruit and ornamental trees, grapevines, small fruits, etc., for the spring of 1906. 168 pages.

Peter Henderson & Co. Catalogue of everything for the garden.

Arthur Cowee, Berlin, N. Y. Catalogue of Groff's new hybrid gladioli.

Ellwanger & Barry. General catalogue of nursery stock. Also catalogue of novelties and specialties, both handsomely illustrated with excellent half tone pictures.

Old Colony Nursery, Plymouth, Mass. Trade list, spring 1906.

Green's Nursery Co., Rochester, N. Y. Illustrated catalogue.

Jackson & Perkins Co., Newark, N. Y. Bulletin No. 1. Wholesale price list.

Brown Brothers Co., Rochester, N. Y. Book of choice fruits. Elaborately illustrated. General catalogue nursery stock.

H. M. Hardyzer, Boskoop, Holland, issues an exceedingly complete and comprehensive catalogue The American agent of this firm is Aug. Rhotert, 26 Barclay St., New York.

Ellwanger & Barry, Rochester, N. Y. Special sheet advertising the new French pear, Roosevelt, and the new hardy white hybrid perpetual rose, Frau Karl Druschki.

Thos. Meehan & Sons, Dreshertown, Pa. Wholesale trade list, spring, 1906.

Peters & Skinner, North Topeka, Kans. Wholesale price list for spring of 1906.

Lenault-Huet & A. Colombe, Ussy, France. Price list of general nursery stock, season 1905 1906.

Geo. S. Josselyn, Fredonia, N. Y. Catalogue of small fruits. Specialties: grapes, gooseberries and currants.

Andre Leroy, Angers, France. Biennial descriptive catalogue, issued September, 1904. 152 pages. Special price list for autumn, 1905, and spring, 1906.

Levavasseur & Sons, Ussy and Orleans, France. Wholesale catalogue of plants, season 1905-1906.

Pierre Sebire & Son, Ussy, France. Trade catalogue of nursery stock. Specialties: fruit tree stocks, seedling and transplanted evergreens, forest trees and ornamental shrubs.

Huntsville Wholesale Nurseries, Huntsville, Ala. Price list for the fall of 1905 and spring of 1906.

Jackson & Perkins Co., Newark, N. Y. Bulletin No. 2, issued February 20, 1906, giving wholesale prices for spring, 1906, and grade counts of unsold stock.

EDITOR NATIONAL NURSERYMAN:

In reply to your valued favor of the 15th, will say, find enclosed $1.00 in stamps for one year's subscription to your valuable paper, as I think it is well spent.

We are all preparing to make the coming convention at Dallas a grand one.

Texas. W. K. EASTES.

51,000 Peach budded from select buds for our retail trade. Write for list and prices.

Winfield, Kans. COOPER & MONCRIEF,

EDITOR NATIONAL NURSERYMAN:

Dear Sir.—I have purchased the growing nursery stocks of the estate of the late D. H. Patty. This consists of about 35 acres of A No. 1 young fruit stocks, and nearly doubles my present interest in that line.

Geneva, N. Y. H. E. MERRILL.

Luther Burbank, "the wizard of horticulture," has never yet said anything about himself or his work in print, although a great deal has been written about him. But he has at last consented to write for *The Youth's Companion* an article, to appear in the March 22d issue, on "How Plants are Trained to Work for Man."

OPEN LETTER FROM PRESIDENT ALBERTSON

TO THE MEMBERS OF THE AMERICAN ASSOCIATION OF NURSERYMEN AND NURSERYMEN GENERALLY.

The following letter has been mailed by President Albertson to all Nurserymen as well as all Members of the Association :

Enclosed herewith we are handing you a complete table of **Freight Classifications** of nursery stock, etc., now in effect in all of the different general classification districts throughout the United States. It will pay you well to familiarize yourself fully with this, and to fully post your freight agents in regard to same, for unless you do call their attention to the changes, they are likely to overlook these items in their large or complete tables, and charge up the old rates without noticing the difference.

We call your special attention to the reduction of 15 per cent. from second-class rates on trees in boxes in the official territory, and to the change in minimum car-load weights in Western and Southern classifications. Also that the Western classification bales now go at actual weight in consignments of one hundred pounds, or over, regardless of size of individual bales.

By these changes in classifications there will be a very large saving in the nurserymen's freight bills, and an expansion of territory that can profitably be covered by them, and a bringing closer together of buyer and seller.

This saving in freight will probably amount to $50,000.00, or more, per year, as there are a number of firms to each of whom the saving will be from $1,000.00 to $5,000.00 per year on box shipments in the official territory alone, while in the Western a saving of 20 per cent. on all small cars, and in the Southern a saving of 20 per cent. in minimum weight on all cars has been secured—not counting the other changes that have been made.

Now, to those parties who receive this letter and are **not members** of the **American Association of Nurserymen,** we wish to say we are sending you this table of classifications that you may have the benefit of same, and to call your attention to the very great and valuable work that is being done by the **Association** through its committees who give their time to the work **without compensation,** and often at loss of time to their own business.

This freight table is an evidence of only one line of the work that is being done by the Association, as much time has been devoted to legislative matter, and there is now before the Legislative Committee a work that will take years to accomplish, and which is of great importance and value to the nursery business.

Thousands of dollars have been spent by the Association in the expenses of these committees, etc , but the returns to the trade will be **tens** of **thousands** of dollars annually, in the benefits of which you will share..

Now, to carry on this work as it should be, will cost thousands of dollars. This year our treasury was exhausted, and a call had to be made for voluntary contributions, to which we are glad to say an exceedingly liberal response was made—as already reported in the NATIONAL NURSERYMAN. Our membership is not more than one-fourth as large as it should be, and the principal source of its revenue is the membership fee, which is only $3.00 per year. Now are **you** doing **your** part? Remember, on box shipments alone in the official territory, you are saving this $3.00 on every $20.00 of freights paid, or $15.00 on every $100.00, while in other territories from 4,000 to 10,000 pounds on each car—sufficient to pay your membership for many years, besides the other benefits.

We would like to have all of you attend the meetings of the Association when possible, but even though you may not be able to attend, you should aid in the work by having your names on the membership roll, and with your membership fees, and though you may not attend the meetings you will still receive the benefits of this work, and the reports of the Association, which will be worth many times the membership fee.

In future, bulletins will be issued whenever there is anything special to report, revised freight tables, etc., sent out, but these will be sent to **members only,** and to secure them you should at once become members.

We are enclosing **application blank** for membership, which we trust you will at once fill out and forward to the Secretary, **George C. Seager, Rochester, New York,** with a draft, postal order, or cash for $3.00 membership fee.

There are yet in the hands of the Secretary fifty of the reports of our last meeting at **West Baden, Ind.,** in June, 1905, **a very valuable** book, which will be sent free to the first fifty new members sending their applications, in addition to enrolling you as members for this year, which will entitle you to the reports of the next meeting to be held at Dallas, Texas, June 13, 1906, and which promises to be a very valuable book, and all bulletins, tables, etc.

We hope you will also arrange to attend this meeting. Low railroad rates will be given, and it promises to be a delightful trip.

Trusting that you will join us and help us out in the work, and assuring you a hearty welcome by the Association,

Yours truly,

E. ALBERTSON,

Bridgeport, Feb. 17, 1906. *Pres't Am. Assn. Nur.*

GOOD STOCK LOW PRICES

35,000 MYRTLE

SOME SAMPLE VARIETIES.

Myrtle Vinca Minor, Madeira Vine Tubers,
Shasta Daisy, Pyrethum Roseum, Gaillardia Grandiflora,
Aquilegia, double mixed and single mixed,
Sweet William, field-gr., Yucca, 1 and 2 year.
Wistaria, 1 year, fine blue, German Iris, named,
Hollyhoch, strong, double field roots.

Samples of stock free. Send for free list of other stock.

S. J. GALLOWAY, Eaton, Ohio.

50,000 MADEIRA VINE

KEROSENE EMULSION
MADE
WITHOUT HEAT
Will save you time and money.
WHY NOT TRY SOFT NAPHTHA SOAP?
To be had of TAKANAP FOLKS, DARBY, PA.
MIXES READILY WITH CRUDE OIL—NO BOILING.

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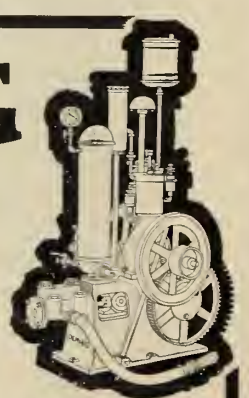
Commencing with this issue, our readers will notice the advertisement of the Hart Pioneer Nurseries, of Fort Scott, Kans., advertising high grade nursery stock. This is an old established firm, having organized their business in a small way in 1865, until at the present time their nurseries comprise over 600 acres and is one of the largest in the west.

DEMING

POWER SPRAYING OUTFIT.



A light, simple, practical gasoline engine outfit that sells at a reasonable price. Experienced fruit growers pronounce it by all odds the best power sprayer made. Entirely self-contained, ready for attaching hose, and easily mounted on wagon bed or tank wagon. Just the thing for the large operations of farmer, orchardist or park superintendent.

SEND FOR FREE CATALOGUE

of all sprayers. **Barrel, Bucket, Knapsack, Hand, Field, Etc.** Our line of sprayers is known everywhere for their efficiency and nice adaptability to all uses. Be sure to investigate before you buy.

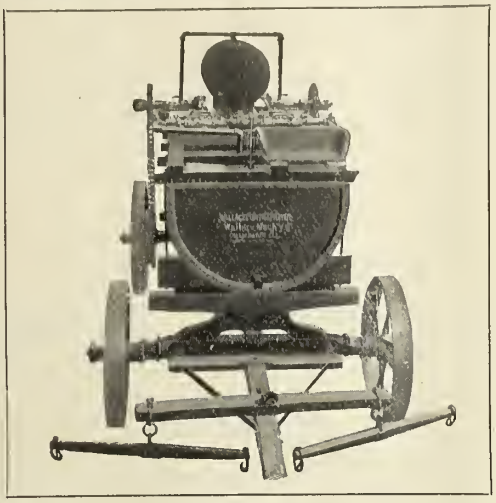
A Deming Outfit solves your spraying problems.

THE DEMING COMPANY,

325 Depot Street, SALEM, OHIO

HENION & HUBBELL, Western Agents, CHICAGO, ILL.

What Does Spraying Cost You?



Onley, Ill., August 26, 1904.

Wallace Machinery Co.,
Champaign, Ill.

Gentlemen:—We are pleased to inform you that in using your Power Sprayer this season in the mud we did good work. Two men with two double Vermorel nozzles put on large trees 1,800 gallons of spray material in nine and one-half hours. Yours truly,

JOHN F. JOLLY.

These men put out 2,000 gallons in ten hours in 1905 and drove back to the house to refill tank each time.

Manufacturers of gas sprayers congratulate themselves when they can bring the cost for power down to about 7-10 of a cent per gallon of liquid handled. But why pay seven tenths of a cent or any other sum per gallon for power to spray?

Wallace Power Sprayers cost absolutely nothing for power

High, well-sustained power comes from gearing to wheels of wagon or cart which carries your spray mixture, and you put out from 1800 to 2000 gallons a day.

DO A LITTLE FIGURING

In a late experiment with gasoline power at Cornell University, College of Agriculture, it was shown that the cost for gasoline per gallon of liquid sprayed was 7-10 of one cent. Cost for labor and team .785c. per gallon. Total, 1.485 cents per gallon. That would be $26.75 for spraying 1800 gallons.

The WALLACE POWER SPRAYER costs nothing for power and two men with team, at a cost of $4.50 will easily handle 1800 gallons of liquid for their day's work.

The saving is $22.23 on a single day's spraying. Is it not worth while? Send for catalogue and know all the facts.

Our Peerless Gas Sprayers are ALL BRASS. No other such machines made. We are originators of Aluminum nozzles. Don't forget to write for the catalogue.

WALLACE MACHINERY CO.,
CHAMPAIGN, ILLS.

Make Money in the new country Southwest

Right **now** you can make money in the Southwest. We can tell you where and how.

It is truly a wonderful country, and the fact is being emphasized more and more as its development progresses.

The farmer receives cash for his product and makes more money acre for acre than can be made in the East or North on land that costs very much more. The merchant or manufacturer makes greater profits on his investment, be it large or small, and the value of the land or other investment is increasing coincident with the rapid growth of the country.

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Nursery grown Forest, Shade and Ornamental Trees in large quantities. Large stock of Yuca Filimantosia and Ailanthus Glandulosus. Being the center of many nurseries enable us to fill orders promptly in case we are short on any item. Our stock of Strawberries, Raspberries and Blackberries is large and select. Our prices are always right. Planters are entitled to nursery prices.

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GEO. J. FOSTER, NURSERYMAN.

NORMAL, ILLINOIS.

If you are looking for Nursery Stock, write a Nurseryman for it. General assortment for

Spring of 1906

Two Year Apple, Early Richmond Cherry, Keiffer Pear, Shade Trees, Small Fruits, Peonies, Grape Vines and Roses. Write for price list

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THE THEORY, DESIGN AND CONSTRUCTION of buildings and apparatus for the preservation of perishable products and nursery stock. This is the first work ever published in which the business of Cold Storage in all its varied applications to commercial and industrial life has been thoroughly and exhaustively treated.

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Very Low Prices on Assorted Lots in Car Loads.

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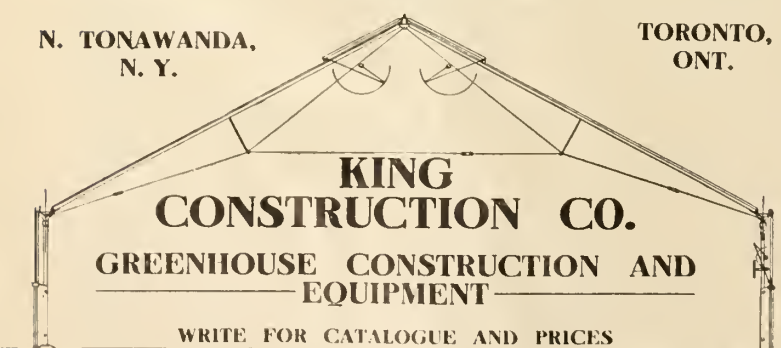
TEXAS NURSERY CO.,

Sherman, Tex.

N. TONAWANDA, N. Y. **TORONTO, ONT.**



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GREENHOUSE CONSTRUCTION AND EQUIPMENT

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"MOST NORTHERN IN AMERICA"

We offer a complete assortment of stock grown and acclimated to the **NORTH-WEST.**

Special attention given to Packing Dealers and supplying Wholesale Trade.

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APPLE, CHERRY, PLUM

LARGEST STOCK OF HARDY ORNAMENTALS IN THE NORTH-WEST.

Special Rates on the Following: Ash, Eup. White Birch, Cut-Leaf Weeping Birch, Catalpa, Hackberry, Silver Maple, Mt. Ash, Carolina Silver and Lombardy Poplar.

Complete Line of Evergreens, Shrubs, Vines, Roses, Small Fruits, Perennials, Etc.

Write to-day for catalogue, wholesale and retail. Also submit list of wants.

L. L. MAY & CO., St. Paul, Minn.

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Apple, Cherry, Peach, Plum and Kieffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded. None better.

Osage, Russian Mulberry and Soft Maple Seedling.

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

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Elm, Soft Maple, Box Elder, Weir's C. L. Maple.

GRAPE VINES, FLOWERING SHRUBS.

APPLE GRAFTS. All styles made to order.

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CAPITAL NURSERIES

NORTH TOPEKA, KANS.

ESTABLISHED 1875

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One of the Largest, Best Equipped and most up-to-date Nursery Plants in the United States.

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Over 100 varieties, all grades.

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Largest stock in United States.

PLUM EUROPEAN and JAPANESE
Smooth well grown trees.

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All of the leading sour and sweet varieties in prime condition.

ROSES and ORNAMENTALS
The leading popular kinds.

FOREST TREE SEEDLINGS
Catalpa, Locust, Maple, Elm, Ash, etc.

APPLE SEEDLINGS, LARGE SURPLUS
Grown on new land, free from disease.

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Any style made to order. Put up from best material and by competent workmen.

Shipments made from storage at any time.
Pleased to price your wants.
Special inducements on car lots.
Ask for **Winter Wholesale List,** now ready.

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The largest and most complete in the state and one of the largest and best equipped in the country.

FOR SPRING OF 1906

PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

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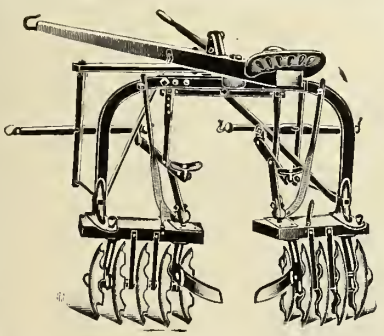

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4 C's Cutaway

Our other Cutaway Disc Machines are the best tools made for preparing the soil for planting stock. Look it up.

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Also for Speer Grafting Machine U. S. A. and Canada.

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SHRUBS, JAPANESE IRIS, PAEONIES

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Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

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APPLE, PEAR, PLUM, PEACH,

Catalpa, Silver Maple, Poplar,
Box Alder,

6-8 ft., 8-10 ft and 10-12 ft.

Black Locust and Catalpa Speciosa Seedlings,

12-18, 18-24 and 24-36 inch.

We have in cellar a general line of nursery stock and will be pleased to quote prices on your list of wants.

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Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted. Can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

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Made of **High Carbon** coiled wire. We have no **agents.** Sell direct to user at **factory prices on 30 days free trial.** We pay **all freight.** Catalog shows 87 styles and heights of farm and poultry fence. **It's free.** Buy direct. Write today

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15,000 APPLE TREES, 5-8 to 3-4, for sale cheap.
100,000 CALIFORNIA PRIVET, from 1 to 3 ft.
10,000 HYDRANGEA PANICULATA, both bush and tree form. Also a large stock of FOREST TREES, WHITE, AUSTRIAN AND SCOTCH PINE OF ALL SIZES. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

WE offer to the trade for spring shipment the following list of stock. Our own growing, clean, smooth and well furnished.

APPLES,
Northern Sorts. 90,000 5-7 and 4-6 feet.

PLUM,
On Native Plum. A good supply in all grades.

CHERRY,
Not Many, But Good.

EVERGREENS,
30,000 best varieties.

ORNAMENTAL,
Shrubs and Trees. Complete Assortment.

FOREST TREE SEEDLINGS,
Box Elder, Maple, Elm, Ash, etc.

ROSES,
Field Grown. Own Roots and Buds.

Please submit List. Right Prices.

Car Lots a Specialty.

C. G. PATTEN & SON,

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BLACKBERRY ROOT CUTTING PLANTS

Largest and best stock in the country. Our Blackberry plants have the same mass of fibrous rootsas our grape vines.

One year plants for late fall and spring shipment. Send lists of wants for lowest prices.

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A BARGAIN IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

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PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

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TEXAS

The Cotton Belt Route has a through direct line between St. Louis and Texas points—Dallas, Ft. Worth, Waco, etc. Through sleeper and chair car service. Vestibuled trains leave St. Louis morning and evening for Texas and the southwest.

Write for folder, map, etc.

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Cotton Belt, St. Louis, Mo.

Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons,

Waukegan Nurseries,
WAUKEGAN, ILL.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

Established 1853

WEST CHESTER, PA.

offer for Spring the following surplus stock. Our Peaches are particularly fine this year and of our own growing.

PEACHES, 4 to 6 feet, $\frac{9}{16}$'s and up.

250 Alexander	200 Ey. Canada	260 Michigan Early
183 Bernard's Ey.	150 Ey. Rivers	375 Mary's Choice
300 Bronson	650 Everbearing	750 Morris White
125 Billyeu's Late	1000 Engle's Mam.	300 Holderbaum
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1000 Belle of Ga.	2000 Foster	800 Moore's Fav.
4000 Chair's Choice	1500 Greensboro	637 Magnum Bonum
300 Chinese Cling	285 Geo. 4th.	1000 Reeves Fav.
190 Conkling	100 Hyne's Surprise	275 Sneed
600 Cooledges Fav.	200 Hale's Ey.	500 Stev. Rareripe
2000 Crawford Ey.	2000 Heath Cling	3000 Stump
4000 Champion	300 Hill's Chilli	600 Susquehanna
300 Christiana	1000 Klondike	300 Sallie Worrall
200 Carman	185 Lemon Cling	1000 Triumph
255 Delaware	185 Lord Palmerson	1000 Troth's Ey.
315 Druid Hill	300 Large Ey. York	180 Waddell

PLUMS, $\frac{3}{4}$'s and up.

1500 Abundance	800 Botan	300 Hale
100 Apple		

PLUMS, $\frac{5}{8}$ to $\frac{3}{4}$'s.

300 Abundance	200 Bailey's Jap.	250 Hale
200 Apple	150 Chabot	200 Oct. Purple
200 Burbank		

We have everything in the Ornamental and Shrub Line that is in demand. Write for what you need.

ESTABLISH YOUR NURSERY

OR A BRANCH

Of it in the South. All Southern Nurserymen are prosperous, none of them have ever failed, because they do an immense volume of business and get good profits. Our most successful Nurserymen have come to us from other sections.

Southern land owners, fruit raisers, truck-growers and florists have accumulated hundreds of thousands of dollars. They've saved it. They took it out of the fertile soil of the South, and they are going to replant these savings year after year, for a still larger and more profitable harvest.

In ten years Virginia, the Carolinas, Georgia, Florida and Alabama, will be recognized as the greatest fruit and vegetable sections in America. The Seaboard Air Line illustrated monthly Magazine gives the reasons; you should know them and we will put your name on our complimentary mailing list upon request.

If you want a new location write us.

Seaboard Air Line Railway

J. W. White, G. I. A, Portsmouth, Virginia.

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WE OFFER FOR SPRING, 1906:

Cherry 2 yr. ¾ and up, ½–⅝ and 2-3 ft. Cherry 1 yr. in limited numbers only. Catalpa Speciosa in three sizes. Very fine. These are in storage and can ship at any time. Senator Dunlap Strawberry plants direct from originator. We solicit your patronage and guarantee satisfaction.

H. M. SIMPSON AND SONS,

VINCENNES, INDIANA.

OUR NEW CATALOGUE

Quoting Prices for Fruit Tree Stocks:

300	Varieties of	Conifers, 1 to 4 years old,
1200	"	" Ornamental Trees and Shrubs, 1 to 3 years old,
1600	"	" New and Old Ornamental Trees and Shrubs in all sizes.
250	"	" Climbing Plants,
400	"	" Conifers, 1 to 4 feet high,
400	"	" Perennials,
800	"	" New and Old Roses,

has been distributed and will be sent free on application.
Write direct to us. We have no agents.

Transon Bros'. and D. Dauvesse's Nurseries.

BARBIER & CO.,

16 ROUTE D'OLIVET, ORLEANS, FRANCE.

EVERGREENS.

If you want small transplanted **Evergreens**, send for my price list. Very best stock, sure to grow, 20 kinds. Very fine White Pine, Sweet Chestnut Seedlings.

C. L. WHITNEY,
Warren, Ohio.

DO YOU WANT

Apple Seedlings

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Japanese Pear Seedlings?

We do not grow MORE than all others. We care WELL for what we do grow. Write us for prices, and if you want to see fine seedling ask for samples.

200,000 2 Year Apples

As fine a block as there is growing in the West.

ALL LEADING SORTS

North Topeka Nurseries,
A. L. BROOKE & CO., Proprietors
North Topeka and Grantville, Kansas

Black Locust Seedlings

ALSO

Honey Locust,	Apple Grafts,	Russian Mulberry,
Rhubarb,	Catalpa,	Asparagus,
White Elm,	Shade Trees,	and Ash Seedlings.

Many other items for the nursery trade.

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THE NORWICH NURSERIES,

NORWICH, CONNECTICUT.

The season 1905 was its best, sales largest, losses smallest.

Not a KICK on Stock, Prices, Roots or Packing.

We sell everything that grows out doors. Let us estimate on your wants.

TREE PROTECTORS

75c. per 100. $5 per 1000

Send for samples and testimonials. Do not wait until rabbits and mice ruin your trees. *Write To-day.*

HART PIONEER NURSERIES
Box 27, FORT SCOTT, KANS.

I OFFER

large stock of grape vines, *extra* quality. A quantity of *fine* Eldorado and Blowers Blackberry and other varieties. Seventy-five thousand Columbian Raspberry tip plants, Black and Red Raspberries.

New Importation of Industry Gooseberries two and three years old. Everything graded to *highest standard*. Send for special quotations. Good assortment of nearly all varieties, including two year old Rhubarb. Can ship any time. Write me for prices.

EUGENE WILLETT,
N. Collins, N. Y.

SPRAMOTOR
Farmers and Fruit-growers everywhere are greatly pleased with the Spramotor.
With it they have doubled the yield from their orchards, banished wild mustard from their fields, made potato growing very profitable, kept their barns and buildings neatly painted—all with a minimum of labor.
86-page treatise R. free. Agents wanted.
SPRAMOTOR CO.,
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We will quote special prices on Keiffer Pears and Japan Plums, 2-year old, in all grades, also on 5/8 to 3/4 inch Cherry and other stock.
Write for prices. Address as above.

Nursery Stock OF ALL KINDS At Wholesale

Send us a list of your wants for prices. We will save you money

AGENTS WANTED EVERYWHERE.

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English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

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In Surplus

Cherry, Peach, Pear, Plum, Apple Trees.

Apple, Elm, Mulberry,
Soft Maple, Catalpa Speceosa,
Seedlings and Osage Hedge.

Imported 3-5 m/m Mahalebs and Myrobolans.

GOOD STOCK,
GOOD GRADES,
REASONABLE PRICES.

Write us,

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P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

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FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS. FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company
R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE VINES

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

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Franklin Davis Nursery Company,
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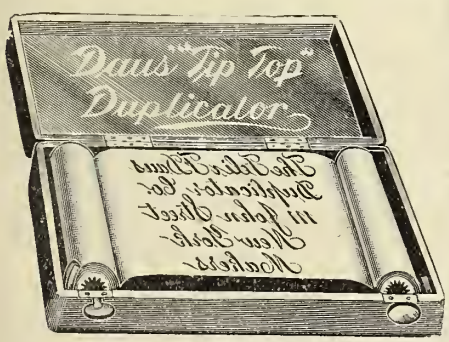
WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.



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Grower and Shipper of NURSERY STOCK
ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.
Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

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Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Spring of 1906, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1904 and Spring of 1905 counted up 270,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, ASSORTED, STANDARD—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees
and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST
AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

FAIRMOUNT NURSERIES

TROY, OHIO.

CALL ATTENTION TO AN EXTRA FINE LINE OF

Apple, Peach, Standard and Dwarf Pear, Cherry, Plum, Currants, Quince and Grapes, Ornamental Trees, Shrubs and Vines. Also our usual supply of Apple, Pear, Cherry and Plum Seedling.

APPLE SEEDLINGS.

WE OFFER THE FOLLOWING.

No. 1, 3-16 in. and up straight.
No. 2, 2 to 3-16, straight.
No. 3, 2-16, nothing under.

Also Grafters. Boxing at cost.

Write and get our prices.

WRITE US FOR OUR WHOLESALE LIST.
LET US FIGURE WITH YOU ON YOUR WANT LIST.

The Geo. Peters Nursery Co.

WABASH R. R.

offers unexcelled service
to the

WEST

FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

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Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

SPRING AND FALL, 1906,

For nursery stocks, of their own growing, grading and packing.
For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 HUDSON ST., NEW YORK CITY.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.

OFFER FOR SPRING AND FALL 1906

SPECIALTIES:

PEACH—Grown from North Carolina and Tennessee Natural Pits—large assortment—carload lots.

CALIFORNIA PRIVET—Extra fine—one and two year.

NATURAL PEACH PIT—Crop 1905, and **general line of Shrubbery and Ornamental Stock.**

NOTE: Our stock is now being grown on new land in Hanover Co., about 20 miles from Richmond. No nursery stock has heretofore been planted on or near this place; it is also isolated from old orchards and we can promise our patrons an exceptionally fine lot of stock. Correspondence solicited.

VERMONT APPLE SEED

produces the healthiest seedlings, most perfect stands. A few bushels unsold.

APPLE SEEDLINGS from Vermont seed
ROOT GRAFTS, all leading sorts
GRAPE VINES, New York grown
MAHALEB CHERRY SEEDLINGS
MYROBOLAN PLUM SEEDLINGS
NATIVE PLUM SEEDLINGS
JAPAN & FRENCH PEAR SEEDLINGS
QUINCE STOCKS
CAROLINA POPLAR
APPLE SCIONS, extra fine, leading sorts
STARK TREE DIGGER—THE BEST
A Complete Line of General Nursery Stock

STARK BRO'S NURSERIES & ORCHARDS CO Louisiana, Mo.

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Surplus Small Fruits

Our stock is complete and can make prompt shipment. Everything first-class. ORDER NOW.

Raspberries Cumberland, Eureka, Gregg, Kansas, Ohio, Palmer, Columbian, King (new), Shaffer Col., Haymaker, Cardinal Brilliant, (new), Munger (new), Cuthbert, Golden Queen, Hansell, London, Miller, Marlborough, Turner.

Blackberries Crystal White, Early Harvest, Erie, Eldorado, Kittatinny, Lawton, Maxwell, Minnewaski, Early King, Rathbun, Merserean, Ancient Briton, Ohmer, Stone's Hardy, Kennover (new), Blowers (new), Ward (new), Snyder, Taylor, Wilson's Early, Wilson Jr., Agawam, Wachusett, Iceberg, Dewberry, Premo, Lucretia, Austin's.

Cuttings North Star, Victoria, Cherry, Fay's, Pomona, Red Dueth, Wilder, Red Cross, London Market, Versailles, Houghton Downing Red Jacket Carolina Poplar California Privet, Orange Quince, Houghton Layers.

Garden Roots Asparagus; Rhubarb, divided roots; Rhubarb, grown from seed, 1 year; Horseradish Sets; Holt's Sage.

A good stock of **Currants, Gooseberries, Wineberries, Juneberries, Strawberry-Raspberry, Buffaloberries, Loganberries, etc., etc.** Price List on application.

W. N. SCARFF, New Carlisle, O.

Vincennes Nurseries

W. C. REED, VINCENNES, IND.

APPLE—Fine lot of Ben Davis and general assortment; 40 varieties all grades.

PEACH—Splendid assortment. Long on Elberta. Grades run largely medium, 3 to 4 and 2 to 3 feet.

PLUM—Japan, New Hybrid and Wild Goose.

CHERRY—1 and 2 years. Fine stock.

SHADE TREES—Ash, Elm, Box Elder and Balm Gilead. Also nice line of Pear, Roses, Shrubs, etc.

BRANCHED ROOT
Apple Seedlings

We have a very fine lot—about 500,000—of ¼ in. branched root Apple Seedlings. They have been grown on new land and will be graded strong. They are clean—have good color—and are strictly select in every way.

We will make very close prices

F. W. Watson & Co.

TOPEKA, KANSAS.

When writing to Advertisers mention The National Nurseryman.

WHEELOCK & CLARK,

FREDONIA, N. Y.

Grape Vines and Currant Plants

A SPECIALTY.

CORRESPONDENCE SOLICITED.

LOMBARDY POPLARS.

3, 4, 5, 6, 15 and 20 feet.

CAROLINA POPLARS, 10 and 14 feet, PEACH TREES, Small lot, 1st and 2nd, CAL. PRIVET most all sold, 1 and 2 yr., SHRUBBERY, variegated Leal Althea, Forsythia, etc. Some good Hemlock Spruce can be moved with ball, 2, 3 and 5 feet.

JOSIAH A. ROBERTS, Malvern, Pa.

Wood Labels

OF EVERY DESCRIPTION, both plain and printed for Nurserymen and Florists

Prices and Samples Cheerfully Given.

Dayton Fruit Tree Label Co.

South Canal St., Dayton, Ohio.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.

Write direct to us, we have no agents.

WEATHER-PROOF

SHIPPING-TAGS

and

Paper Tree Labels

FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

When writing to Advertisers mention The National Nurseryman.

Snow Hill Nurseries

OFFER FOR SPRING, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KEIFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moores, Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. **W. M. Peters' Sons** Telegraph Office: Western Union, Berlin, Md.

Post Office: SNOW HILL, MD.

Easterly Nursery Co.,

CLEVELAND, TENN.

Offer for Spring of 1906—

One Year Peach, One and Two Year Apples, One Year Cherry, Two Year Pecans.

WRITE FOR PRICES.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent,

Louisville & Nashville R. R.

LOUISVILLE, KY.

If You Want the Finest

European and Japan Plums

in Dansville, both 1 and 2 yrs., also 1 yr. Cherry and Keiffer Pear, write

JAMES M. KENNEDY, Dansville, N. Y.

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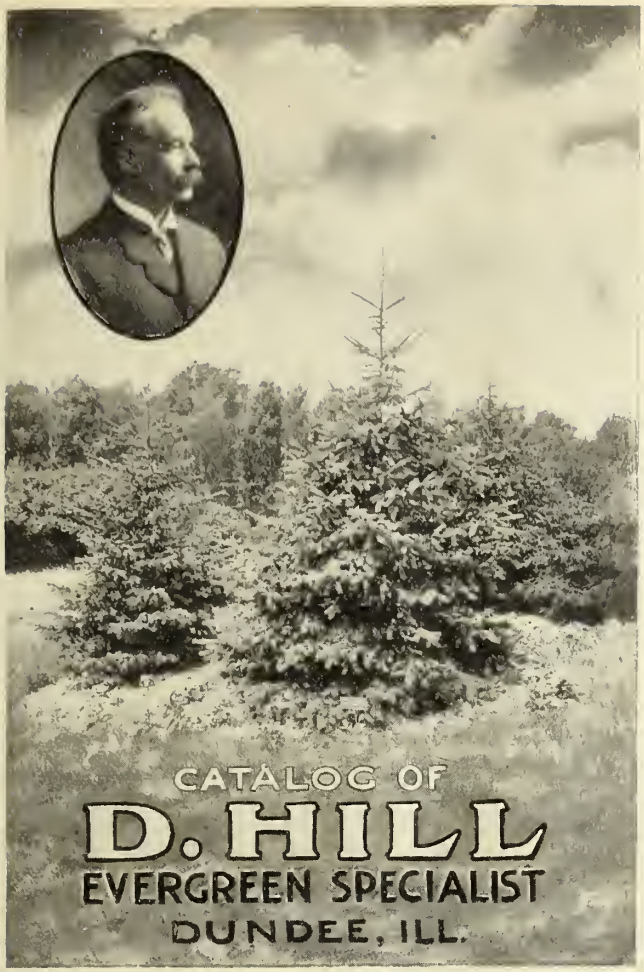

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Dundee Nurseries'

Large, complete and beautifully illustrated catalog of Evergreens. We grow all the hardy, leading varieties of these useful and ornamental trees. Our Evergreens are nursery grown, properly transplanted and root-pruned

We Are Evergreen Specialists

We can supply them in car-load lots or in any quantity to the trade. Special prices on 2 to 3 foot White Pine in car lots.

Catalog contains pictures of Seedlings, Transplanted Stock and Specimen Plants together with much information valuable to Nurserymen. Sent free.

D. HILL, *Dundee Nurseries,*
DUNDEE, ILL.

About the South

"About the South" is the name of a 64-page illustrated pamphlet issued by the Passenger Department of the

ILLINOIS CENTRAL R. R. CO.

in which important questions are tersely answered in brief articles about

Southern Farm Lands,
Mississippi Valley Cotton Lands,
Truck Farming, Fruit Growing,
Stock Raising, Dairying,
Grasses and Forage, Soils,
Market Facilities
and Southern Immigration

along the lines of the Illinois Central and Yazoo and Mississippi Valley railroads, in the States of Kentucky, Tennessee, Mississippi and Louisiana, including the famous

YAZOO VALLEY

of Mississippi.

Send for a free copy to J. F. Merry, General Emigration Agent I. C. Railroad, Manchester, Iowa.

Information concerning rates and train service to the South via the Illinois Central can be had of agents of connecting lines, or by addressing.

S. G. HATCH, G. P. A., Chicago, Ill.

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WILLIS NURSERIES

OTTAWA, KANSAS

OFFERS FOR SPRING OF 1906

Apple, Peach, Pear, Plum, Cherry, Concord Grapes, Blackberries, Raspberries, Hedge, Forest Tree Seedlings, Roses, Apple Seedlings : : : : : : : : :

Stock is Strictly Choice in Every Way We Solicit Your Orders and will make Favorable Prices

A. WILLIS, - - Proprietor

When writing to Advertisers mention The National Nurseryman.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
60 CORTLANDT ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

NORTH CAROLINA
NATURAL PEACH PITS

Now ready for delivery. These seeds are in great demand and you should ORDER AT ONCE.

ADDRESS

JOHN A. YOUNG, *Greensboro, N. C.*

Hybrid Perpetuals, Hybrid Teas, Teas, etc.

Send Your Want List.

TO LINE OUT this spring, buy

ROSES

Grown cool in new houses. Free from all diseases.

Baby and Other Ramblers, Climbers, etc

Get Our Price List.

On own roots.

THE LEEDLE FLORAL COMPANY SPRINGFIELD·OHIO·

2½ inch pots.

SURPLUS FOR SPRING.

2000 Black English, 4 ft. up Mulberry, one year.
5 to 6000 1 yr. Peach, leading kinds, 4 to 6 ft., 3 to 4 ft.
2000 Plum 1 yr. 5 to 6 ft., Abundance mainly.
500 Pear 1 yr. 4 to 5 ft., Keiffer mainly.
2000 Caroline Poplar, 7 to 10 ft.

All above at low price in order to close out this coming spring.

Address EMPORIA NURSERIES, Emporia, Va.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

F. E. SCHIFFERLI

FREDONIA, N. Y.

Grape Vines and Currants.

I offer for sale of 1906 an immense stock and complete assortment. A particularly fine stock of Extra Heavy two and three year vines for

NURSERYMEN'S RETAIL TRADE.

Also a light grade of vines for lining out in nursery rows. I guarantee careful grading and prompt shipment.

Grape and current cuttings quoted upon receipt of amount and varieties wanted, which should be ordered early.

Correspond before placing your order.

The Willadean Nurseries

OFFER FOR SPRING, 1906

One of the most complete lines of

Fruit, Shade and Ornamental Trees, Roses, Shrubs and Perennials

to be found South of the Ohio River.

Seedlings we have in large quantities, including Oaks, Gums, Chestnuts, Cypress, Tulips, Magnolias, Elms, Mulberries, Black Locust and Catalpa Speciosa.

WE ARE HEADQUARTERS FOR CATALPA SPECIOSA, AND BLACK LOCUST SEEDLINGS,

having grown in 1905 over Sixteen Million Seedlings of Locust and Catalpa alone by actual count.

Send us your list of wants to price.

Spring trade-list will be ready in February; send for it.

THE DONALDSON CO., Warsaw, Kentucky.

100,000

Kansas, Cumberland, Nunger, Miller Red Raspberry plants, one million of all Standard varieties of Strawberry at low wholesale price.

Send for Surplus List.

CARSON BROTHERS, Middleport, Ohio.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.

Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

SURPLUS COUNT FEB. 15

All Stock in Storage and Can be Shipped on One Day Notice.

d of over One Million Speciosia Catalpa, which is one-third of our annual production.

Mahaleb Stocks

No. 1. 5-8 mm	88,000
No. 2. 4-5 mm	58,000
No. 3. 2-4 mm	16,000
No. 4. 1-2 mm	Sold
Extra. 8-10 mm	59,000

Speciosia Catalpa

18-24 inch	80,000
12-18 inch	261,000
6-12 inch	317,000

Russian Mulberry

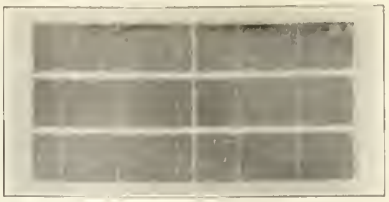
18-24 inch	15,000
12-18 inch	17,000
6-12 inch	90,000

American White Elm

18-24 inch	31,000
12-18 inch	60,000
6-12 inch	110,000

COOPER & MONCRIEF,

Winfield Nurseries, Box 176, Winfield, Kan.

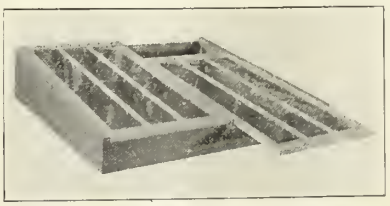


NOW ONCE AGAIN FOR COLD FRAMES

Don't you know there's just as much difference in makes of cold frames and sashes as between day and night? Our absolutely sap free cypress is just as essential in them as it is in a greenhouse. Our thorough way of putting them together makes them a stay together certainty. Now most of us don't mind paying a little bit more for a certainty.

We make all types of greenhouse too, but only one quality.

LORD & BURNHAM COMPANY,
GREENHOUSE DESIGNERS and MANUFACTURERS,
1133 BROADWAY COR. 26TH ST., N. Y.
Boston Branch: 819 Tremont Bldg.



SPECIAL ON 3-YEAR APPLE

To dispose of our Surplus 3-Year Apple in Ben Davis, Gano, Grimes Golden and Ingram, we offer above varieties at special low prices

26,000 BEN DAVIS,	3 yr.
8,000 GRIMES GOLDEN,	3 yr.
11,000 GANO,	3 yr.
6,000 INGRAM,	3 yr.
14,000 BEN DAVIS,	2 yr.

This stock is first-class in every respect. Smooth bodies, one-year heads. If any of above are required for your spring trade, write at once.

New Haven Nurseries

Box 325, New Haven, Mo.

THAT SPECIAL LIST.

Last month we told you about a special lot of young ornamental stock we have to offer, the unusual value of the list and "write to-day." As a result of the prompt responses from the "early birds," many items are now exhausted. The list, however is such a large one—embracing all the popular sorts in addition to much rare stock that cannot be bought elsewhere—that there are surely at least a few items left that will interest you.

If you want some nice, thrifty, young stock that will increase many times in value with a season's growth, *get this list.*

Depreciate the value of this list if you will, but get it early—that's the point. Then you'll understand.

MEEHAN'S WHOLESALE CATALOG

All nurserymen should have it. Why? Because

First. It's the index to **300** acres of Hardy Ornamentals exclusively—no fruits nor tender plants.

Second. It lists an assortment difficult to surpass; an assortment that comprises seedling stock suitable for lining out to large transplanted specimens.

Third (*And this is the most important point.*) It represents stock of the highest grade. Quality first, last and all times with us. *You* should insist upon it too. It pays. Shall we send you a copy of this catalog?

P. S. Judging from the weather we are experiencing, the frost will leave the ground early this season. Order early.

Thomas Meehan & Sons, Inc.

WHOLESALE NURSERYMEN,

Box T, Dreshertown, Pa.

The L. Green & Son Co.

Western Reserve Nurseries,

PERRY LAKE CO., OHIO,

carry a most complete line of the wants of the trade, including a fine assortment of Roses of all kinds, Maples, Silver, Norway, Ash Leaf and Weir's Cut Leaf, Elms, Catalpas, Mt. Ash, European, Cut Leaf Weeping Birch, Magnolias, Double Lilacs, tree form, and Snow Ball tree form, Clematis, Hydrangea, tree and bush form, American Sweet Chestnuts, Car. Poplars, Currants, Grapes, Rhubarb, a general good assortment of shrubs of nearly all kinds and sizes.

Evergreens, Arbor Vitæ, Siberian, Pyramidalis and Tom Thumb, Pines, Austrian, Scotch and White, Norway Spruce, etc., etc. All Evergreens two and three times transplanted and very fine.

Native Plums one and two years in the three grades.

We also have an elegant line of Perennial Plants in a full assortment of varieties, consisting of the newest and most popular sorts, on which we are able to make special inducements for early orders.

Correspondence solicited and inspection invited.

LARGEST GROWER IN AMERICA OF

GRAPE VINES

OTHER SPECIALTIES

Currants and Gooseberries

INTRODUCER OF CAMPBELL'S EARLY GRAPE, JOSSELYN GOOSEBERRY, FAY CURRANT. . . . . .

OVER A QUARTER OF A CENTURY WITH NO CHANGE WHATEVER IN OWNERSHIP OR MANAGEMENT.

Our main business is the growing of unusually high grade stock suitable for the proper filling of Nurserymen's Retail Orders. There being no standard for grading above kinds of stock, every grower of the same is at perfect liberty to adopt his own ideas for growing and grading and alter the same as often as he sees fit.

Our stock this season has made very heavy growth and we have ordered extra boxing to meet this necessity. Box and packing free.

Prices reasonable but not always lower than are generally quoted for light rooted stock.

Please send us your list of wants.

GEORGE S. JOSSELYN,

FREDONIA, NEW YORK.

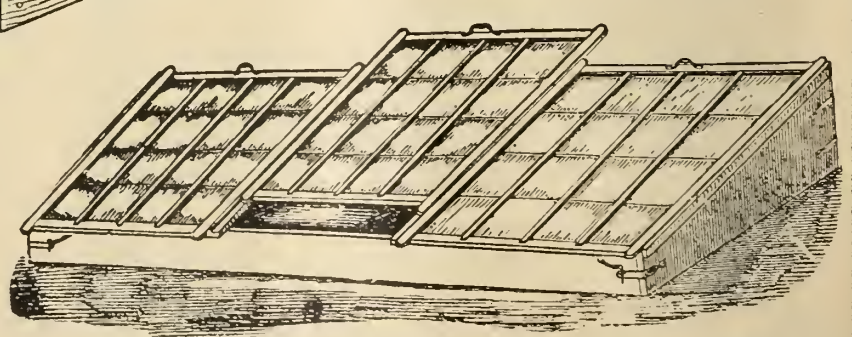
The Premier Span Roof Garden Frame

This is one of the most useful small structures possible for the Fruit Grower and Gardener. Can be used for a variety of purposes.

Prices on application.

THE PREMIER HOT BED SASH AND FRAMES

are Inexpensive, Durable and Effective.



The Premier Greenhouses

FOR COMMERCIAL OR AMATEUR PURPOSES.

Are portable, soundly built of excellent material and the prices range from $20 to $2,000. Catalogs on application.

C. H. MANLEY, Dept. N. N., PREMIER MFG. WORKS, ST. JOHNS, MICH.

From the cover of a catalogue made this season for Arthur J. Collins, Moorestown, N. J., by J. Horace McFarland Company, Printers for Nurserymen, Harrisburg, Pa. It shows a simple but efficient use of but two printings, some help being had from the color of the paper

OVER

WHY WE DO NOT MAKE "STOCK" CATALOGUES

CONSTANTLY we receive requests from Nurserymen who have not thought much about it, and who have certainly not read our advertisements with much attention, to send them "samples of our descriptive catalogue," and to give prices for one hundred and over. Sometimes the information is given us that a catalogue is wanted at a cost of $4 or $5 a hundred, and of about eighty pages. We patiently reply, telling why we have no "stock" catalogue, but we can't explain as fully as is desirable in the limits of a letter; wherefore, we set down here, where all may read, a few words on the subject:

A "stock" catalogue is one which is printed without the name of any nurseryman upon it, except upon its covers, usually, and is intended to be used by a number of nurserymen. It is supposed to include so large a range of descriptions as to serve all who apply for it. It is, therefore, inevitably, a paper liar for each individual who buys it, for the nurseryman does not have all the things this stock catalogue says he has.

Worse, it misrepresents every one who uses it, for it cannot give proper information as to the plants and trees that do best in any one neighborhood. It must spread all over America, and it does,—but it covers mighty thin!

The "stock" catalogue is a liar, because it makes the man who uses it say things he neither knows nor thinks, and shows pictures that he can hardly recognize himself, sometimes. Thus, the chance to say about some special fruit or ornamental just what the individual nurseryman thinks, is lost, and his catalogue, which ought to speak for him only, is a sloppy mess of generalities and inaccuracies.

The "stock" catalogue does harm to its users, because the possible buyers who get it may have had the very same catalogue sent, shown or handed to them by another "stock" victim the same day! The cover may be different, but you remember what a trouble Jacob got into once by wearing his brother's cover? And there is a fable about a certain long-eared quadruped whose borrowed lion's skin didn't disguise his charming voice!

And the expense of a "stock" catalogue—when you count the liar it makes of you, the sales its wooden pages prevent, and the shame face it puts on you for wearing a false face—is heavy!

Your own catalogue, one you have had made, to represent honestly your own honest stock in your own words, does not need to have so many pages; and while the cost of the first thousand may be two or three times the cost of the misfit "stock" catalogue, successive thousands are sure to cost much less.

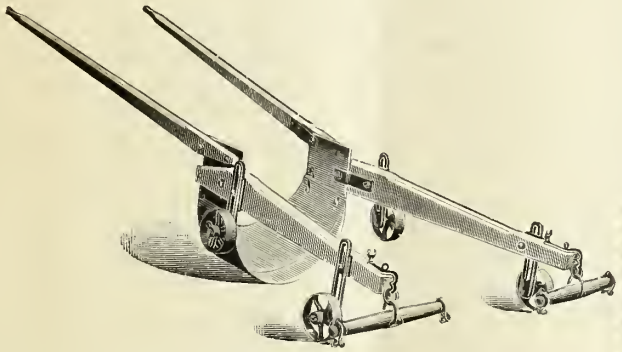
We make catalogues only to order. We have experience and engravings, equipment and ingenuity. We prefer to have the nurseryman *write* his catalogue, but we will help him if necessary, and it will be *his* catalogue, of *his* stock, suited to *his* locality, and therefore ready to make sales for *him*, if we produce it.

We can do a few hurry-up catalogues in April, and we are always ready to write about the work, and to give close prices for good printing.

J. HORACE McFARLAND COMPANY
Mount Pleasant Press
HARRISBURG · PENNSYLVANIA

1857 **L. G. BRAGG & CO.** 1906

Growers of No. 1 Nursery Stock, also manufacturers of Bragg's Common Sense Tree Digger and Jumbo Cultivator. The Jumbo does fine work from start to finish. The operator rides over the tops of 3 and 4 year trees and the



Digger gets all of the roots at the rate of 20 to 40 thousand trees per day.

L. G. BRAGG & CO.,

KALAMAZOO, MICHIGAN.

F. H. STANNARD & CO.

Successors to BREWER & STANNARD

Proprietors

Ottawa Star Nurseries

OTTAWA, KANSAS.

Have for sale a large and complete assortment of Nursery Stock, strong on

APPLE, CHERRY, PEAR, PLUM, PEACH, APRICOTS, FOREST TREE SEEDLINGS, APPLE SCIONS.

A good assortment of Grape Vines, Gooseberries and Currants. Also Ornamental Trees and Shrubs.

A Southern Location

FOR YOUR HOME, YOUR MANUFACTURING PLANT OR YOUR BUSINESS.

Farms in Virginia, North and South Carolina, Georgia, Alabama, Mississippi, Kentucky and Tennessee.

Nurseries and Fruit Farms Succeed in the South

All conditions are favorable. There are fine Markets, Good Locations, Low Cost of Labor and Splendid Distributing Facilities.

Good Lands at Low Prices.

A HEALTHY CLIMATE, LONG GROWING SEASONS, AND AN ALL-THE-YEAR WORKING SEASON.

The South is now making greater progress than any other Section. If you would learn about its developments, and the opportunities for good locations along the Southern Railway, write for copies of our publications, which will be sent free on request.

M. V. RICHARDS,

LAND AND INDUSTRIAL AGENT,

SOUTHERN RAILWAY, WASHINGTON, D. C.

When writing to Advertisers mention The National Nurseryman.

DREER'S SPECIALTIES.

Hardy Perennial Plants

All the standard and leading varieties in immense quantities, of a size and quality to give best results to planters.

Aconites	Asters
Anemone Japonica	Campanulas
Aquilegias	Corcopsis
Delphiniums	Digitalis
Doronicum	Funkias
Gaillardias	Heleniums
Helianthus	Heliopsis
Hemerocalis	Hibiscus
Hollyhocks	Hypericums
Iris Kaempferi	Iris Germanica
Liatris	Lobelias
Lychnis	Monardas
Myosotis	Oenotheras
Poppies	Pæonies
Phlox	Pinks
Primroses	Scabiosa
Statice	Stokesia
Thalictrum	Tritomas
Trollius, etc.	Veronicas, etc.

Ampelopsis — Aristolochias
Clematis Paniculata — Clematis Hybrids
Honeysuckles — Hardy Ivies
Lathyrus — Wisterias

Our New Wholesale Catalogue offers the most complete collection of Hardy Perennial Plants in the country, as well as a full line of Decorative Greenhouse Plants, Bulbs, Seeds and all seasonable stock.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

When writing to Advertisers mention The National Nurseryman.

Juniper Hibernica | Picea Pungen | Tsuga Canadansis | Thuya Pyramidalis | Abies Douglassi | Abies Concolor

The smaller varieties in front belong to the Retinospora group.

Blue Spruce | Mugho Pine | Blue Spruce

Specimen Evergreen Trees in Nursery Grounds of D. Hill, Dundee, Ills.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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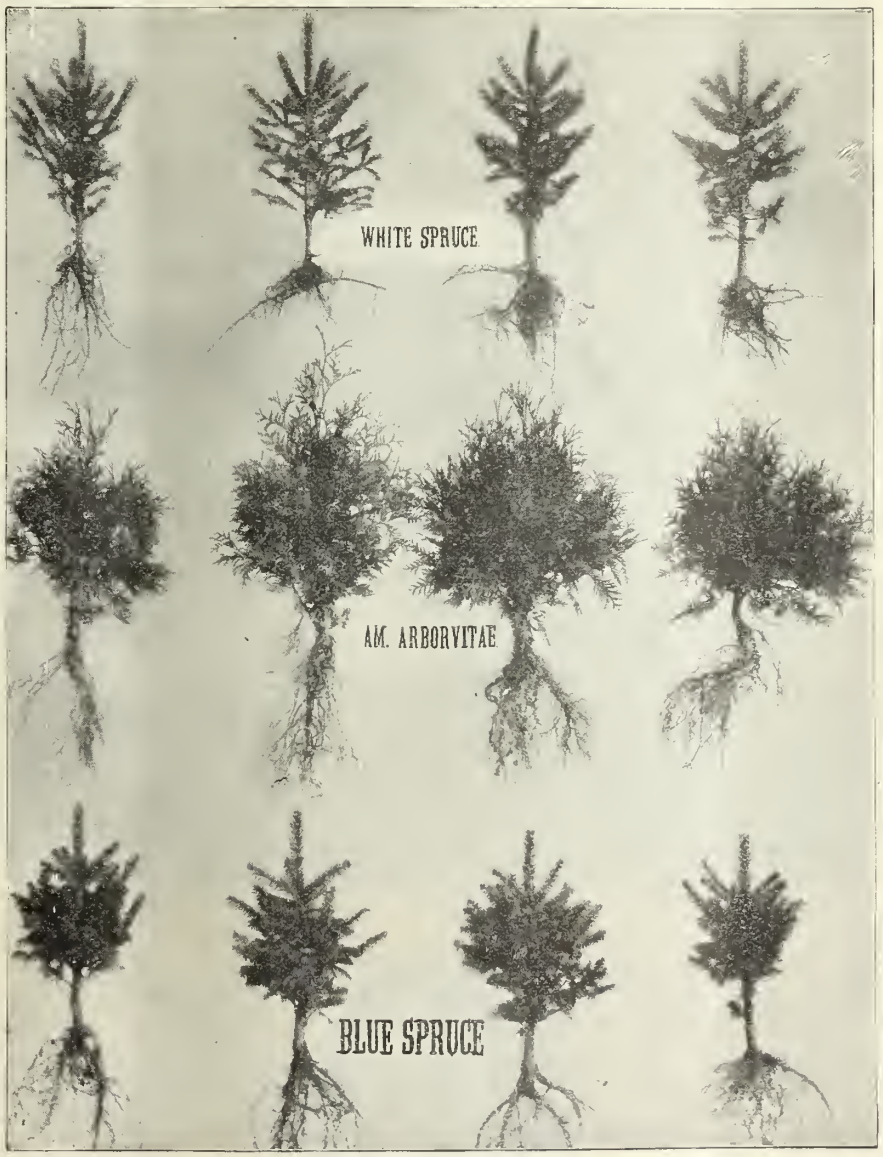
Vol. XIV. ROCHESTER, N. Y., APRIL, 1906. No. 4.

AN EVERGREEN SPECIALIST.

D. HILL OF DUNDEE, ILLINOIS.

In the North, the term "evergreen" refers to the great group of coniferous trees. In the South the broad leaved trees which carry their foliage throughout the year are added to these. In the North the conifer is dominant. In the South both are present, but the broad leaved form is the prevailing type.



Picea Alba—White Spruce Thuya Occidentalis—American Arbor Vitea
Picea Pungens—Blue Spruce

COMPANIONABLE AND PICTURESQUE.

There is something peculiarly companionable and comfortable in the presence of groups of conifers or of handsome well-grown specimens. Are they not picturesque as well? What more striking than the tall figure of a solitary white pine, as it stands silhouetted against a lowering sky, or the spire-like outline of a white spruce when feathered to the ground?

Evergreens are not only desirable from the æsthetic point of view, but they have brought shelter and the external attributes of a home to many a western settler. The great trouble is that they have not been used half long enough. If, instead of the white willow and soft maple, the spruce and pine had been planted in early days, how much better off would the home maker on the prairie now find himself.

A PIONEER EVERGREEN GROWER.

Northwestern Illinois is noted as an evergreen region. The names of Hill and Douglas have made the section famous, and these men have brought blessings in the form of hardy evergreens to thousands of pioneers in the great prairie states of the Mississippi valley. The nurseries now owned and operated by Mr. D. Hill, of Dundee, Illinois, were established by his uncle, an Englishman with strong plant-loving and plant-growing instincts, in 1855.

THE PRESENT BUSINESS.

It was in 1874 that the present owner, David Hill, took charge of the nursery, and it has been conducted by him

since that time with, latterly, the assistance of the third generation, namely, G. W., A. H. and Vernon D. Hill. The senior member has then had over thirty years' experience as a successful grower and handler of evergreens. From a modest beginning the business has grown until it is the most extensive of its kind in this country.

SPECIALTIES.

This firm grows seedling conifers by the million. These baby plants require delicate handling from the seed bed (incubating) stage, until they take on an independent existence in the nursery row. Here, independence and individuality are emphasized. Special forms or particularly good tints of some types go into separate groups and make up the higher and more expensive grades of each variety. It is mighty interesting work, on account of the inherent tendency of selected seedling evergreens to vary under cultivation. The growing of the plants from seed and the making out of these tender and sensitive seedlings, strong, symmetrical, easily transplanted trees, is a main feature of the work of D. Hill, Evergreen Specialist, of Dundee, Ill. While the mass of his stock is grown from seed, many of the peculiar forms are propagated by special methods of grafting. Among these are some of the rarer shades of Colorado Blue Spruce, weeping blue and weeping Norway spruce.

ABIES CONCOLOR White Fir

DAVID HILL.

A LARGE STOCK.

Mr. Hill carries a full collection of hardy pines, native and foreign Junipers, Japanese Cypress (Retinospora), white and red Cedars, Hemlocks and the like. It should also be stated that while evergreens are the staple products of this nursery, large quantities of deciduous forest, shade and ornamental trees, together with decorative shrubs, are grown for the wholesale and retail trade.

LOCATION.

On friable prairie soil, some thirty miles due west of Lake Michigan, and forty-three miles northwest of Chicago on the Chicago and Northwestern Railway, this interesting establishment may be found. The visitor from Chicago may go by rail or trolley, and the nurseries are open and visitors welcomed, as the propagator says, on all days except Sundays.

ATTRACTIVE CATALOGUE.

Mr. Hill prides himself on providing his patrons with an exceedingly attractively written and handsomely illustrated catalogue. This gives valuable hints on the management of transplanted evergreens, and discusses the use and adaptation of each variety to soil and climate. It is also indicative of the quality of stock sent out by this firm.

The frontispiece illustrations, as well as those on this and the preceding page, are reproduced from photographs taken on the grounds of the Dundee nurseries.

Doings of Societies.

WISCONSIN HORTICULTURISTS.

MADISON, Feb. 6th, 7th, 8th.

The work of the society began on Tuesday morning at 9 o'clock. After the annual address by the President, T. E. Loope, followed reports of delegates to various horticultural meetings in different parts of the country during the past year. Tuesday afternoon at 2 o'clock there was a reception of the delegates from the various states, each one giving a few words of greeting from his own state society, Mr. S. H. Marshall then gave a very interesting report of the meeting of the American Pomological Society at Kansas City in September, to which he was a delegate. This was followed by a report from delegates of local societies in the state. The noticeable feature of these reports was that many of them were given by ladies. It would appear from this that the women of the state take a very active interest in the work of the Horticultural Society. The evening of Tuesday the 6th, was taken up with three very interesting talks on different lines by members of the Agricultural College Staff. Prof. J. G. Moore discussed the desirability and feasibility of nurserymen and fruit growers employing their winter months to profitable advantage. He showed how this might very easily be done by investing a comparatively small sum of money in well-kept greenhouses, which could be utilized for the growing of such crops as lettuce, radishes, tomatoes, etc. He pointed out that even in towns the size of Madison, where at present, there was comparatively little demand for forced crops, such a demand could be readily created if the vegetables were placed upon the market regularly. He believed that Madison could alone support several such establishments as he described. Mr. J. G. Milward gave an interesting talk on the late "blight of potatoes" and the method of controlling it by spraying with Bordeaux mixture. Mr. Milward has been doing considerable work in spraying in different sections of the state and has thoroughly demonstrated its value to the Wisconsin farmer. Professor E. P. Sandsten gave a short talk on a recent trip to southwestern Texas.

MARKETING PROBLEMS.

The session of Wednesday morning, February 7th, was devoted almost entirely to a discussion of the marketing of fruit. There was considerable discussion on the co-operative marketing of fruit, the general opinion seeming to be that it was very desirable, and where properly conducted, quite successful. One of the most interesting talks of the morning was given by Mr. George E. Rowe, of Michigan, in which he took occasion to point out the many disadvantages resulting from the sale of fruits through commission men. He cited instances that came under his personal observation to show that the grower was very frequently taken advantage of by the commission men. Other members of the meeting presented the case of the commission man and pointed out that there were honest men in this business as well as in any other, and that frequently the losses resulting from shipping to commission men was the fault of the grower himself in packing or shipping the goods. Altogether it was a very interesting session.

Wednesday afternoon was devoted entirely to the discussion of strawberry growing and diseases of the plant. Various growers from different parts of the state reported upon the condition of this crop in their sections.

From the very lively and interesting discussion upon cost of growing strawberries it seems that the more money expended in cultivation and fertilizing, the greater would be the yield in proportion. The cost of growing an acre of strawberries for one year was variously estimated from $30 to $175 per acre. The income ranged from $90 to as much as $400 or $500 per acre. The subject of cultivation was discussed at some length, the consensus of opinion being that cultivation throughout the year, except during blossoming and fruiting time up until the ground froze, was most profitable. Most of the growers spoke in favor of the hedge row system of cultivation. Varieties were also discussed to a considerable extent. Warfield and Senator Dunlap perhaps received the most praise from the Madison growers.

STRAWBERRY DISEASE.

A number of growers spoke of a peculiar disease of strawberry plant which was causing considerable loss to Wisconsin growers. This was spoken of generally as the "root disease" and the plants appeared strong and vigorous during the early spring, but frequently, about blossoming time or just after the fruit is set, the leaves of many of the plants turn brown and die. The fruit also shrivels up and fails to mature. An examination of the roots shows them to be dead for a part or all of their length from the tip toward the crown. Many of the growers attribute this to winter kill but others believe that this is not the case and that the trouble is due to some bacterium or fungus which attacks the roots. Mr. Goodman, of Kansas City, Missouri, gave as his theory that the death of the roots was due to scalding by the sun, especially during rainy seasons when there was an excess of water in the soil. Mr. Whetzel of Cornell University told of the occurrence of the disease in New York State for a number of years past. He stated that although considerable work had been done on it at the Cornell station, the cause of the disease had not yet been discovered so far as he knew. He believes, however, that it was due to some organism which attacks and kills the root. He pointed out that it could hardly be winter kill as plants in his own gerden set out in the spring and apparently strong and healthy for the fore part of the season suddenly succumbed to this disease along in July and August. It appears to be the most common and dangerous malady of strawberries in the state of Wisconsin.

PEDIGREE NONSENSE.

Mr. M. Crawford of Ohio, originator of the famous Crawford strawberry, gave a very interesting paper on pedigreed strawberry plants. He pointed out very clearly that the so-called pedigree strawberries were in no sense pedigree plants. He showed that the term "pedigree" was not used in the correct sense in this case. The plants were only selected. The term "pedigree" implies a recorded ancestry from different parents. He further stated that the selection of strawberry plants for a number of years in his opinion and experience would make practically no difference as regards the yield of berries. He believed that berries selected and grown in the ordinary way by growers generally were just as valuable for planting as those carefully selected for a number of years, as was claimed for the so-called pedigreed plants. He stated that tests made by him showed this to be true. He stated further that the selection of plants from cuttings of any kind could not produce improvement of any permanent value. In the discussion that followed many speakers took exception to the latter statements of Mr. Crawford, especially as regards the non-improvement of plants from selection of cuttings. It was a very interesting and profitable paper and discussion.

The remainder of the afternoon was devoted to a discussion of the strawberry questions in the question box. These had to do largely with methods of culture and diseases of the plants, especially the root disease. Mr. H. H. Whetzel of Cornell University, Ithaca, N. Y., gave a paper on Fire Blight and Apple Tree Cankers. Mr. Whetzel's remark was illustrated with a number of lantern slides showing the characters of the ordinary pear or fire blight as it appears on the trunks and limbs of apple trees. The discussion brought out the fact that the "blight canker" probably occurs quite extensively throughout Wisconsin wherever apples are grown. One of the most serious diseases of the apple trees of the state is the well known twig blight which Mr. Whetzel has shown to be caused by the same organism that produces the cankers on the bodies and limbs of the trees.

Some of the papers which followed were: Faith, Hope and Cherries, by Mr. A. L. Hatch; the Pewaukee Apple, its History by Mr. A. J. Phillips, followed by the discussion, What Shall We do With It? The Monroe County Duchess Seedling by J. J. Menn; The Zettle Seedlings by D. E Bingham; Cultivation and Cover-crops, Professor U. P. Hedrick, Geneva, N. Y.; Pruning, Professor E. C. Sandsten, University of Wisconsin; Spraying, Professor S. A. Beach of Iowa.

The annual banquet of the Horticultural Society was held on Thursday evening.

H. H. WHETZEL.

THE AMERICAN ASSOCIATION OF NURSERYMEN.

LOOKING TO THE CONVENTION AT DALLAS, THE TEXANS ARE AWAKE.

CONTRIBUTED BY JOHN S. KERR.

As one means of working for the interests of the coming convention at Dallas, some of the Texas people are using a circulating correspondence, stimulated by letters from Mr. E. Albertson, Bridgeport, Indiana, President.

John S. Kerr, of the Program Committee, says: "This good work of the Transportation Committee, as outlined by Mr. Albertson, is valuable to us of the Southwest. We believe that the circular of President Albertson, of February 26th, will prove a membership winner."

Mr. Stanley H. Watson and Mr. C. C. Mayhew have made a recent trip to the North, and have an eye on the interests of the Dallas convention, and we are assured by them that there will be a large attendance from the North and East.

Conference is being had with the Program Committee and a full program is promised to be had at no distant day, in plenty of time for publication.

LOW RATES.

Mr. Stanley H. Watson, Chairman of the Entertainment Committee, writes: "We have secured a $15-rate, with a limit of 30 days, from St. Louis to Dallas and return. A special train will be given to run on a greatly improved schedule, putting the train through in about eighteen hours. As to attendance, also, my trip North and East convinces me that there will be a large attendance. I had the pleasure of talking to the National Association of Retail Nurserymen, and also to the Eastern New York Horticultural Society, in the interest of the Dallas Convention.

"In reference to Mr. Burbank, if I can possibly get time, I will go out to California to see Mr. Burbank and try to secure his attendance. My thoughts are directed toward the entertainment of these people, and I want all Texans to contribute largely to that end. Texas has the reputation of being the biggest single thing on earth. Its men have the reputation of being broad-minded and liberal with the balance of the South. It is in our hands to make good on this thing, and I know that you are going to do it."

Edward W. Knox, Chairman of the Attendance Committee, writes: "I am vigorously pushing the matter of keeping the convention before the people, and indications are that we will have a large attendance at the Dallas convention. I believe that every nurseryman in Texas should be urged to contribute to this entertainment, according to the volume of his business."

F. T. Ramsey, of Austin, Texas, member of the Attendance Committee: "I see that our fellow Texans are alert, and it is in my heart to do whatever is necessary. I approve everything that is agreed upon. Besides subscriptions of money, we should show up all the products of our State. I will put at the disposal of the convention 2,000 Mexican Tube Rose sprays for decoration, as well as other fruits and flowers.

"I am going to write Mr. Burbank a personal letter. It will be worth $10,000 to have Mr. Burbank come."

F. W. Malley, Garrison, Texas, Chairman of the Committee of Exhibits: "I agree with you that it is important to have a strong fund with which to entertain members, but if possible, more important is it to show up the resources of our great State. We want more subscriptions and promises of exhibits, and I call upon all Texans to come to my rescue in the matter of exhibits. I will furnish 50,000 Caps Jasemine buds, as souvenirs. We want a full line of fruits and flowers. I am writing Mr. Luther Burbank to be with us."

Mr. J. H. Connell, Editor of *Farm and Ranch*, Dallas, Texas, says: "This Convention will prove of great importance in the development and progress of Texas."

J. F. Sneed, Tyler, Texas, B. L. Adams, of Bonham, Texas, and many others are contributing of their means and products for the Convention.

Ex-President E. W. Kirkpatrick, of McKinney, Texas: "Texas will seldom have other such opportunities to work for self and for all the country, as this, which is promised in our coming June meeting. Let us join this work with might and main, donate liberally of money and products, as well as words of welcome and deeds of kindness. Let every nurseryman and fruit grower and truck farmer and all others attend this meeting and lend a helping hand."

C. C. Mayhew, Chairman of the Finance Committee, writes: "I am glad to note the great interest that is being taken in the Convention, both in those abroad, as well as those in Texas. I have written a great many letters to nurserymen in this and adjoining states, asking for contributions to the entertainment funds. Many subscriptions of $50 and less have been made. Every nurseryman and fruit grower in Texas will be given an opportunity to help in this matter. I had the pleasure of a visit in the Northeast, and I find a big majority of all those I met intend going to Dallas. I believe the attendance will be the largest we have ever had, and to entertain them properly, we must have a strong fund."

Type of fumigating house used in Ohio. Courtesy of Professor A. F. Burgess, State Inspector.

Correspondence.

COMMENTS ON "ANTI-RADICAL'S" LETTER.

EDITOR NATIONAL NURSERYMAN:

"Anti-radical's" comments upon the administration of the scale laws of the various states, interested me not a little. I know "Anti-radical" personally, and suggest to him that his letter would have had vastly greater influence had he signed his name—a name of which he need, in no sense, be ashamed. The time is near when he or anyone can freely express their beliefs about the wisdom of any scale laws. Wiser heads than ours maintain that you cannot protect men by law alone. Teach them, instead, self-helpfulness and self-reliance. They can and they will better maintain a secure position left to their own resources, and informed of the danger of scale infestation., than by reliance upon a law originally designed to exterminate the pests, but now to control its spread. We are making progress toward the light, however, judging by some of the exploded fallacies of the past.

Professor John B. Smith, of New Jersey, no longer expresses the belief that the scale will not, or rather cannot, exist in the red shale belt of his state. I remember well what "Anti-radical" told me he would do if he ever discovered scale in his nursery. He declared he would at once cover the infested area with straw, and set it on fire; and presto! he was rid of the scale, and, incidentally, of a few trees. Feeling certain the scale would, ere long, reach his nursery, I saw two opportunities to quick fortune. By buying all the straw in sight, and raising the price, and by cornering also all the trees usually offered by "Anti-radical." I abandoned the last scheme when I reflected that when the scale reached his nursery, it would have reached nearly all others, and I would, if I followed his worthy example, consume all my straw in burning my own trees. The first scheme seemed more likely to be profitable, but I hesitated; and like all who hesitate, was lost, so far as the straw speculation was concerned. The dreaded fatality is come to "Anti-radical," and since I do not hear of the destruction of his nursery, I conclude he also abandoned his plan. Wisdom and folly were in the world before our advent, and will be in it after our exit. THEO. FOULKE.

Our Book Table.

"Primary Agriculture and Practical Arithmetic for Rural Schools." 6¾ a 4¾ 81 pages. Paper. Authors, J. Haselwood, Supt. Jefferson County schools, and K. L. Hatch, principal public schools, Waterloo; both of Wisconsin. Published by the *Waterloo Democrat.*

This is one of the most unique little presentations of elementary agriculture that has yet appeared. Its purpose is to connect agriculture and arithmetic, to use arithmetic as a means of inculcating some of the primary principles of agriculture. Each chapter discusses briefly and tersely some of the principles and practices of crop and animal production, and then proceeds to emphasize the salient features by propounding arithmetical problems which the student is expected to work out. These problems are practical and ingenious. The book suggests on the part of the authors an intimate knowledge of the important features of agriculture from the pedagogical standpoint.

NORTHWEST PACIFIC—INTERESTING BUDGET OF NEWS.

M. MCDONALD, SALEM, ORE.

Nurserymen in the Northwest Pacific Coast States are now in the midst of their busiest packing and shipping season for Northern retail orders. The season has opened up much earlier than usual this year, and as a consequence the work has all come on with a rush.

Our winter on the Pacific Coast has been unusually mild, with scarcely any frost at all, and at the present time the weather is equally as mild as the same date in April, ordinarily, and all classes of vegetation are beginning to put forth buds. This, of course, causes every nurseryman to get an extra hustle on himself, and such is the case with the nurserymen along the coast at the present time.

TRADE SATISFACTORY.

Trade, generally, through the season just closing, has been good and in most lines there have been heavy shortages, causing many large orders to be turned down unfilled. This has caused the price of nursery stock generally to stiffen, and we can look forward to the coming year with every assurance that the present rate of prices can be maintained, as there will be practically no surplus stock to carry over into next year, and the coming crop throughout the Pacific Coast for the next season's planting is not unusually large.

The trade in California has been somewhat erratic again this year, as usual. The call has been largely for Clings, Muir and Lovell varieties of peaches, and there was not nearly enough of this stock to go around.

WALNUT CULTURE BOOMING.

In the milder sections of the Northwest, such as the Willamette Valley, the Puget Sound country, and some of the milder of the interior valleys, there is a great boom on in the planting of walnuts. Trees of the hardier varieties of French types, planted over this territory some years ago, are now coming into bearing, proving conclusively that the walnut industry can be established in the north upon a paying basis, and that the product is superior to anything produced in California.

On account of the uncertainty of grafting walnuts, it will be some time before the business can be established upon a correct basis with definite named varieties planted in the orchards, but people are getting information rapidly upon this question and most of the trees that will be planted out in the next two or three years will be second generation from the best of the French types, such as the Franquette and Mayette varieties, so that we may look forward to a profitable industry in the walnut business on the Northern Pacific Coast during the next few years.

The winter just closing has been ideal in this country for nursery operations. There has not been a day since the first of last October on which nursery stock could not be dug and handled in the open. During January and the greater portion of February, open, sunshiny weather prevailed, so that the plowing and outside work, together with the planting of seedlings could be carried on, allowing the work to be well in advance of the season. On the whole, the nursery business on the Pacific Coast is in a very prosperous state.

OPPORTUNITY FOR THE NURSERYMAN.

The nurserymen of the Pacific Coast note with pleasure the interest that is being taken in the meeting of the American Association, to be held at Dallas, Texas, this year, and hope the members there assembled will catch the fever on account of the rousing and enthusiastic meeting that is going to be held, to move still farther west and occupy the great and expansive territory that lies to the west of the Rocky Mountains, and we think it safe to say that there will be as many nursery trees planted in the field west of the Rocky Mountains during the next ten years as there will be in the balance of the United States.

The greatest development that this coast country has ever seen is undoubtedly just setting in; emigration is now pouring into this country, and with the half dozen new railway lines being built and projected at the present time, there will no doubt be still further development which will increase the production of nursery stock to a very great extent. And, it would seem, that since the American Association is national in its scope, that it cannot afford to longer overlook this vast field of nursery interests in which there are hundreds of nurserymen who would be glad to join themselves with the Association, if it could be once brought to their doors so they might see the interests and advantage to be derived from its membership.

The National Nurseryman

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

DEMAND FOR NURSERY STOCK.

Very few nurserymen have any reason to complain about the demand for nursery stock or the prices that stock commands. A larger market for ornamental stock prevails than ever before, and in some lines of fruits the supply is altogether inadequate to the demand. Nurserymen have been able to sell at money-making prices. Business has been thriving in the South, and is in a healthy condition in the North. Taking everything into consideration, the outlook is pleasanter for the nurserymen than it has been for some years.

THE ATTENDANCE AT THE CONVENTION

It is gratifying to learn from all quarters that the promise of a good attendance at the Dallas convention continues to increase. The interest grows as the annual meeting time comes around. It now appears certain that Rochester will contribute her usual quota of a carload, and that New England points will be well represented. The middle West will certainly turn out largely, and our members from the North will certainly go down to see something entirely different and new. Kansas City and vicinity will send a large delegation. While we shall not need our winter flannels, nor our fur overcoats, we do not expect to receive a warmer reception than that given us by West Baden. Plan, then, for a week in which to shed the mantle of dull care by joining "Papa" Josselyn's happy band of pilgrims bound for the great Lone Star State.

NURSERYMEN'S CATALOGUES.

The season of the glowing catalogue has again come and gone. What impression did the tempting array of creations, new and old, make upon you? Some of you conned these catalogues carefully, others glanced over the pages casually, and others tossed them aside without looking between the covers. The careless observer missed an opportunity of improving his mind, and he who overlooked them entirely threw away a positive and valuable source of information. It requires but the most superficial glance to realize that the catalogues have improved tremendously in the last fifteen years. This improvement is illustrated in many ways. The nomenclature has been revised and simplified; descriptions have been boiled down; the use of the superlative in many cases has been suppressed. From a literary standpoint, great improvements have occurred. Artistically, progress has been most marked. We have but to examine the changes made by the substitution of real pictures for impossible wood cuts, to realize wherein the catalogue of to-day differs from that of ten or fifteen years ago. We have before us, and have noted in recent issues, a number of excellent examples of catalogue-making, where the literary and artistic finish are dominant and worthy of the highest commendation. This marks the highest type of progress, for it deals with educational development.

It is rather unfortunate that this term, which in animal breeding means a definite thing, should in plant breeding be so palpably misused. In animal breeding, the word "pedigree" implies a known ancestry. It should mean the same thing in plant breeding, but fruit growers and fruit originators have lately fallen into the habit of calling a plant pedigreed, when it has simply been propagated from an improved form. This is selection, not breeding. It is a meritorious line of work, but that is no reason why it should be confused with true breeding. It is a form of selection perpetuated by the simplest type of multiplication.

PEDIGREE PLANTS.

Recently we have heard a great deal about pedigree strawberries, the claim being made that runners taken from vigorous, healthy plants would produce larger crops than if taken from plants less vigorous and less favorably situated as to culture and care. The Ohio Experiment Station has made a comparison of these pedigree plants with other plants selected from ordinary individuals of the same varieties. In no case do the results which were secured by these trials support the claims of the pedigree growers. The experimenter concludes that "We have in no case found any reason to believe that if pedigree strawberry plants have an existence, the pedigree has any value to one who buys them."

In the busy life of the hustling nurseryman it seems only like a month or two since the last convention of the American Association of Nurserymen was held at West Baden. Yet here we are, again under the necessity of planning for a ten days' visit to the great Southwest, where the 1906 meeting will convene. There are many reasons why there should be a large attendance at this convention. The place of meeting has unusual attractions; Texas is great, not only in size, but in horticultural possibilities; there is much to be learned by the fruit growers of the North and East. The fruit growing of that region is of its own peculiar type. The state is full of interesting and highly instructive horticultural enterprises. Great credit should be given Texas for the progress and development she has made. While in the past, distance from markets has been a bar, that factor no longer obtains, because space is being subdued, as time has been nearly annihilated.

RELATIVE TO THE DALLAS CONVENTION.

Texas has noted men in the horticultural world. Her plant breeders are eminent in their line; they have done work of real value; they are developing lists of fruits adapted to the vast range of climate and soil of that great state. The name of Munson, as a grape breeder, is known throughout the horticultural world. Ramsey and Onerdonk are household words in the United States. These men, aided by Kirkpatricks and Kerrs, are making Texas horticulturally famous. Let us go to that great land; let us study the conditions and the possibilities. Such studies will not only be interesting, but they may be capital to us; for these regions are to be reckoned with in the fruit markets of to-day, but to a still greater extent in those of the future.

During a recent trip through Massachusetts, the writer could not help being impressed by the extraordinary lumbering activity in evidence on every hand. Comparatively unimportant blocks of second growth timber were being cut down and worked up into such lumber as they would make, the refuse being turned into firewood. The portable mill was almost ubiquitous, and may of the steep wood-covered slopes were being entirely denuded. Some of these slopes will be of no agricultural value when bereft of their timber. In view of these facts and the condition prevailing, the question naturally arises, what is the cause of this activity? One cause, undoubtedly, is the demand for timber. A farmer pointed out to us a four-acre lot for which he had refused $2,000 for the timber alone. In this case it was a nice second growth of white pine. In other instances there seemed no good cause for the clearing of the land. One of the reasons, however, is the invasion of the Gipsy Moth, and the more recent attack of the Brown-tail Moth. The law makes the destruction of the nests compulsory, and it is sometimes cheaper to cut down the tree than to merely remove the nests. Indeed, in the case of tall elms, it is very difficult to reach the nests without felling the tree. This condition is regrettable for the reason that it gives an additional excuse for clearing worthless lands of the only crop which they can produce profitably. It also encourages reckless wood-cutters, men who, instead of clearing gradually, prefer to clear wholesale. No one can view the forest situation at the present with any care whatever, without appreciating the fact that the available supply of good lumber is rapidly decreasing. Lumbermen are now cutting over areas and using logs that they would not consider for a moment, a few years ago. There is, in view of all this, great need of more education in forestry matters, and a better sentiment making for the preservation and development of forest areas.

THE WOOD LOT ON THE EASTERN FARM.

This subject has been already alluded to in these columns, but its importance is the excuse for drawing attention to it again. The King apple is a noble fruit. It is appreciated by everyone. It often sells the orchard crop in years of plenty. It is true that it does not bear heavily, but nevertheless it is one of the profitable varieties in New York and in many parts of New England.

DOUBLE WORKING.

All indications suggest that this attractive and delicious apple is likely to disappear from the orchards in western New York, by reason of the virulence of a malady known as the collar rot disease. This attacks the bark at the base of the stem, and continues eating away each year in a cancer-like manner until the tree is entirely girdled. It is almost impossible to find a mature King in the lake counties in western New York, in a healthy condition, at the present time. The only healthy specimens that one meets at the present time are those which, by chance, or by exigency, have been top-worked on stocks resistant to this disease. In orchards here and there one finds the King top-worked on Spy or Baldwin. In these instances it is healthy and usually productive.

It seems to us that there is here an opening for the nurseryman who wishes to develop a specialty. It is true that many orchardists do their own top-grafting; but it is also true that there are many more who would vastly prefer to buy their trees already double-worked. Our idea, therefore, is that there is a market for Kings worked on such strong, growing healthy stocks as Spy, Black Detroit, Gilliflower, or perhaps Northwestern Greening. This double-working could be done in the nursery row either by budding or grafting on two-year-old stocks. We recall that the late J. V. Cotta, of Illinois, made a specialty of this business, but it does not appear at the present time that nurserymen are making a business of providing the planter with King, Spitzenberg, Maiden Blush, or other weak growers, worked upon resistant and vigorous stocks.

THE NURSERYMAN AS AN EDUCATOR.

The position and influence of the nurseryman as a promoter of those elements which inspire and educate, those factors in life which are potent agents in developing the aesthetics, and therefore elevating the morals of the race, is thoroughly recognized. Is the nurseryman, however, applying to the fullest extent the opportunity he has of influencing the world along purely educational lines. Has the possibility of the situation come to him in all its significance? At the recent banquet of the National Retail Nurserymen's Associations, the editor of this paper took occasion to draw attention to the fact that in the industrial world the technical branches are supported and developed in many institutions of learning by the men who have made their livelihood, and in some cases amassed fortunes. These men are supporting institutions which have fostered the branches in which they themselves labor. They have founded chairs and established scholarships and fellowships for the encouragement of individual investigation, making for the advancement of the arts in which they have been, or are, interested. It is a deplorable fact that the profession of the nurseryman has thus far not been dignified by such direct connection with the great forward educational movement now characterizing horticulture in all its branches throughout the length and breadth of the land.

Every avenue of mechanics and the industrial arts, every department in language and philosophic research, feels the impulse and benefit of individual benefaction. But no plantsman, no practical grower, has yet identified himself with horticultural education; has yet pledged his belief in the humanizing educational influence of communion with nature, by endowing a chair or founding a fellowship in one of our institutions of learning. The philanthropic phase is, of course, the strong feature to be considered; yet from the purely utilitarian and financial standpoint, the publicity value of such a gift would make the investment a good one. Benefactions of this kind have occurred in connection with horticultural teaching in the old world; but, although magnificent gifts have been given to almost all other branches of educational work in this country—with one exception, and that in Canada—nothing has been done by the individual for horticulture. This exception is the munificent offering of Sir William MacDonald, of Montreal, for the establishment of a college of agriculture in the Province of Quebec. Certain it is that this MacDonald memorial will be of the kind which will make for the fundamental up-building of agriculture, education and citizenship.

A SURVEY OF THE CONDITION OF PEACH BUDS.

Various reports following the cold snap of early February from the Ozark region indicated varying degrees of injury to the peach buds. This injury amounted in some cases to only a trivial loss of buds, in other cases to almost complete destruction. If no other untoward conditions develop between now and setting time, there still ought to be enough buds left to insure a reasonable crop. The cold of the middle of March was very dangerous.

ILLINOIS.

Under date of February 26, reports from Centralia, Ill., announce that all peach buds in that vicinity were killed. This is due to the remarkable drop in temperature from 70° during the latter part of January to 7 or 8° below zero early in February.

NEW YORK.

In the western part the injury is severe. In many places along Lake Ontario the complete destruction of Elberta is reported. In Eastern New York the prospects are brighter.

DELAWARE.

When last I examined peach buds down the State a few days ago they were in perfect condition. I believe they are all right now.

March 10, C. P. Close,
Newark, Del. Horticulturist.

CONNECTICUT AND GEORGIA.

Peach buds were a good deal swollen here by the warm weather in January and several cold snaps well below zero in February killed as many as 50 per cent. of buds on Elberta in some orchards, other varieties not more than 10 or 20 per cent. of the buds were killed, but still we have enough left in all orchards for more than a full crop and every indication at the present time is for a great crop of Connecticut peaches again this year.

In Georgia there has been an exceedingly full bloom, nothing like it ever known before. The temperature tumbled to 27 on the morning of the 1st of March, but up to the 3rd there was no sign that it had worked any injury in our orchards and my superintendent tells me that everything is O. K. at this date.

South Glastonbury, Conn. J. H. Hale.

GEORGIA.

From what few reports we have received and from what I can learn I think that in North Georgia the crop has not been damaged to any great extent. From Adairsville, Ga., they report that on the lowland about 25% of the buds are killed. From sections in the southern part of the State they report that from 25 to 50% of the buds have been killed, but even allowing that this is all true, there are still enough buds left, without further mishap, to produce a fair crop, I should judge.

Yours very truly,

Atlanta, March 5, '06. A. C. Lewis,
Assistant Entomologist.

THE MIAMI VALLEY NURSERYMEN MEET FOR BUSINESS AND PLEASURE.

CLEVER TOASTS.

The Miami Valley Nurserymen had the time of their lives February 27th, at the Hotel Algonquin, Dayton, Ohio. They met at 4 o'clock for the discussion of trade matters, J. W. McNary presiding. It was found, on comparing notes, that both young and cellared stock had wintered nicely, and that spring trade was already active. A number of sales for Fall, 1906, were reported. There was much confidence expressed in the present outlook, and great interest centered about the cherry situation; the concensus of opinion being that the number of first class trees next fall would, in this valley, be much below that of recent years.

Promptly at six o'clock the company repaired to the private banquet hall, and when seated around the large circular table, the following persons were found present: W. N. Scarff, New Carlisle; N. B. Peters, Charles N. Peters, G. S. Helman and M. L. Redmon, of Troy; T. J. Dinsmore and S. R. Fergus, of Tippecanoe City; N. H. Albaugh, Joseph Warner and Frank Freeman, of Phoneton; F. G. Withoft, A. Wyckiff, J. W. McNary, Harry S. Crow, Theo. Huffman, C. W. Huffman and John Siebenthaler, of Dayton; J. W. Gaines, M. A. Gaines and W. Frame, of Xenia; E. M. Barnes and M. F. Barnes, of Mt. Healthy; J. J. Barnes of Cincinnati; Peter Bohlender and Fletcher Bohlender, of Tadmor.

The character of the feast may be judged from the following menu, which was served:

MENU.

Choice Tadmor Bluepoints, in Dormant Bud.
Celery, Fumigated. Olives, a la Scarff.
Radishes, from Farmers Nurseries Company's Private Hotbeds.
Cream of Tomatoes, au Souffle, Lactated Lycopersicum Albertsonii.
Broiled Lake Erie Whitefish, Ravigotte. No stories except by special permission of Toastmaster.
Sliced Cucumbers, from Mt. Healthy.
Potatoes Victoria, from the sunny slopes of College Hill.
Filet Mignon au Champignons. From Surplus List at $7.00 per File.
Romaine Punch (*Substituted*).
Punch brothers, punch with care
In the presence of the company here.
Broiled Spring Chicken en toast (*True to name*).
From Barnes' yard.
Mashed Potatoes, Accidentally.
Green Peas in Cases, with inspector's certificate.
Lobster Mayonaise
Caught by Albaugh! Foot race—even start.
Vanilla Ice Cream Assorted Cake
From cold storage. Always taken by this Association.
Roquefort Cheese Wafers
a la Bohlender. a la Freeman.
Coffee a la Huffman.

To each case of *peas* was attached a tag with an inspector's certificate printed thereon, showing that they were apparently free from "*q's.*"

Hon. N. H. Albaugh, as toastmaster, presided at the banquet. A telegram of regrets from President Albertson, who was an invited guest, was read. The following toasts were then responded to: "The Nurseryman's Soliloquy," by Mr. Charles Peters, of Troy; "Our Friend, the Orchardist," by Mr. W. Frame, of Xenia; "A Prophesy," by Mr. Frank Freeman, of Phoneton. Mr. J. W. McNary, of Xenia, responded to "Our Catalogue" as follows:

MIAMI VALLEY NURSERYMEN'S ASSOCIATION.

DESCRIPTIVE CATALOGUE.

First Edition. Issued "after dinner," Hotel Algonquin, Dayton, Ohio, February 27, 1906.

FORE WORD.

This association is without President or organization, but is firmly bound together by the immutable laws of mutual confidence and respect. This is true, notwithstanding the fact that every member is not only a notable "grafter," but is known to openly and above board encourage the practice.

CAPITALIZATION.

The capital stock of this association is $7 (Siebenthaler). All paid in.

SURPLUS FUND.

One Nichol.

This surplus, however, disappeared from nursery circles some years ago, and is still unaccounted for.

CONTENTS AND DIVISIONS.

Division 1. Big Fruits. (Wyckoffupicus Collossium.)
Division 2. Fruits not quite so big. (Bohlendervisticus Relucium.)
Division 3. Ornamental stock. (Fergusii Scandens Pendula.)

DIVISION 1.

Big Fruits.

Albaugh.—This is a standard variety in this locality, and by it all other sorts are measured. It is supposed to be a seedling, as no evidence of grafting has ever been discovered. It thrives on high ground, and is perennially productive of fragrant flowers and choice fruits, suggestive of the poetry and prose, the ideal and the real in life, which in this sort is so admirably blended. Long may the old tree stand!

It will be observed that after getting the Albaugh on one page, there isn't room for anything else.

Bohlender.—This sort is a native of the valley, and dates back to the time when the aboriginal Redman willingly became a Bohlender to his less fortunate neighbor. It is a good, reliable sort, and is well regarded wherever known. The only fault yet found is, that it blooms too early in the spring, and gets its little pistils frozen.

The "Mann" Apples.

Under this subdivision we place the following sorts:

Redman, Huffman, Helman, Freeman.—This group of hardy sorts is warranted to thrive under all conditions, adverse, obverse or otherwise. The bright color of the Redman (which you see stands severe pruning), the long stem of the Huffman, are essential characteristics; while the Helman variety suggests a tropical origin—apples baked to a turn or roasted through and through. The Freeman is the only free-stone apple now on the market. This stock is all three quarters and up—mostly up—and has a splendid root system.

Fergus.—This is an original seedling of the blush type. It has a sunny side, and on that side you will find the blush. Upright in growth, rather drooping when loaded, skin smooth, russeted in places, agreeably subacid. A splendid variety for sauce for both sexes of geese. A great many propagations have been made from this sort, hence the large number of Fergus' sons throughout the valley.

Peters.—There are two types of this well known sort. One large size, rotund, with open calix and flat basin. The other is

rather oblong, blossom end prominent, and modest blush on the windward side. No evidence of scab on either of these splendid sorts.

RUSSIAN SORTS.

This group embraces the Withoff and Wyckoff sorts. These are old oak process trees, and can stand anything, from a Japanese defeat to a fat government office. These are prolific sorts, and no other kinds need to be planted contiguous to them for purposes of fertilization.

It will be observed, in describing the above sorts we have departed somewhat from the form used by U. S. Pomologist Bracket, at the Washington office, who always gives the number of seeds found in each variety. The above-described sorts all seem to be of a fixed type, rendering it unnecessary to repeat this character.

Peaches H. (Persica Helmanisticus Petersii.)

The following sorts are Peaches, every one of them:

Barnes.—Barns of Peaches are grown down the valley. These are mostly of the Amsden type, generally red to the stone. This sort is indiginous to the hills of southern Ohio.

Frame.—This is one of the cling type; splendid for spicing; is right at home in a crock of vinegar.

Warner.—This is a seedling of the Hill Home Chief of former days, found growing in acres of diamonds.

Gaines.—Another red sort. There are two types, one of which is very meaty and the other mostly seed. The original pits came from Virginia. This sort is always in demand. Most of us are in the nursery business for the "Gaines" we find in it.

DIVISION II.

Fruits not so Large—Otherwise Small Fruits. (Rubus Warnebii Frameicus.)

Scarff.—A Blackberry of a pronounced brunette type that was, at one time, a sucker plant, but early ceased its activities in the dairy line for a proprietary, rather than a subordinate position in the nursery. This is the largest small fruit producer in the valley. Strictly high grade, pedigreed, quite pleasant, and good, to very good. Like all sorts of the Scarff type, it is inclined to get you by the neck.

DIVISION III.

Ornamental Department.

In this department we are able to offer but one *single* variety, but it is so decidedly pretty as to more than make up in quality what we lack in quantity.

The Dinsmore.—This is a perpetual bloomer, always in season. Strong, robust growth, not inclined to climb or ramble. There is some question about its being hybrid. Very fragrant. No rose of any other name could possibly smell as sweet or just like the Dinsmore. It is the only real pretty thing on our list. The ladies describe this superb variety as "just lovely." A single bloomer, but is pistilate, and it is predicted that with careful cultivation it will soon assume a double form. Terminal buds have never been frosted. Highly recommended.

IMPORTED STOCK.

We have one case of imported stock from the classic shades of Hoosierdom (*Emeryisticus Albertsonii*), marked M. N. A. 216. This case passed customs after a sharp contention as to its classification. Relying upon its name, they were about to pass it as ornamental stock, when the surveyor of the port on inspection quickly decided that it certainly was not ornamental. It proved to be something better—useful. The most useful case of nursery goods in the business to-day.

SIDE LINES.

While we do not handle poultry supplies, incubators, etc., as most catalogue establishments do, yet we have a very interesting side line in the way of domesticated animals, consisting principally of Wolfs and Crows. Our strain of Wolfs is pedigreed from away back, and chicken "en toast" or "en roost" is equally satisfactory to him.

The Crows now in stock are of the regulation color established by the three you have read about. Many nurserymen regard this bird as an essential part of their outfit. They are so convenient in time of trouble. When Ben Davis are long, and Montmorency are short, when countermands exceed the orders, agents run away with collections and the buds don't take, just submit the difficulty to the Crow, and you will always find the "Caws." Price $7. per pair.

INSPECTOR'S CERTIFICATE.

No. 741. This is to certify, that the stock herein described has been duly inspected through a "Glass," and found sound at the heart and good, straight stock.

The terminal buds are in good condition, and only one real bad case of root knot has been found. This, however, is not in a contagious form.

This certificate is void after February 27, 1906.

A. BUGESS,
Chief Inspector.

Fruit and Plant Notes.

VARIETIES OF APPLES FOR SOUTHERN ONTARIO.

The following varieties of apples are recommended by Mr. A. W. Peart, of Burlington, Ont., for cultivation in the Niagara district of Canada:

"For commercial purposes: Duchess, Robston Pippin, Blenheim Pippin, Greening, Baldwin and Northern Spy. For domestic purposes: Astrachan, Sweet Bough, Gravenstein, Wagener, Seek-no-Further and Golden Russet."

CHERRIES.

Prof. J. C. Whitten, of the Missouri Experiment Station, recommends for Central Missouri, Early Richmond, English Morello and Montmorency as the most desirable varieties for commercial planting. These are the standards for the nurserymen. There are more of them planted in the East than all other varieties of the sour types together. It is an illustration of the fact that certain varieties have wide adaptations.

ROOSEVELT PEAR.

Ellwanger & Barry, of Rochester, N. Y., have arranged for the exclusive sale of the Roosevelt Pear. This is one of Baltet's (France) recent offerings. It is described as being of large size, excellent quality and maturing in October.

THE GROWING OF VIOLETS.

It is interesting to note how some districts develop special industries in response to peculiarities of adaptation. This is well exemplified by the phenomenal growth of the violet business in the vicinity of Rheinbeck, Eastern New York. This business began about fifteen years ago, when it was estimated that about a thousand square feet of glass were devoted to the growing of violets. The business grew, because the product produced was good. There are at present in the vicinity of Rheinbeck over ninety growers of violets, with an aggregate of 437,850 square feet of glass. In this area there are grown some 35,000,000 flowers annually, which represents a gross income of $175,000 or more. The claims for the superiority of the violets are based upon the length of the stem, the richness of color, and the more enduring fragrance. The product is shipped mainly to New York City, but Chicago, Philadelphia, Buffalo, Detroit, Cleveland and Washington all receive a share. The growing of violets in that region is a very profitable adjunct to the business of many of the tradesmen.

IMPORTERS AND FORWARDERS.

Attention is called to the facilities offered by F. B. Vandergrift & Co., custom house brokers and general forwarders, for the management of incoming and outgoing shipments. These gentlemen have had a long experience in the business, and have a thoroughly systematized and organized corps of agencies in the principal ports of the world. They will attend to such matters as freights, marine insurance, and customs duties. Their address is 66 Beaver Street, New York.

Cleveland, Tenn., 3/19/1906.

THE NATIONAL NURSERYMAN PUB'G. CO.,
Rochester, N. Y.

Gentlemen:—Our spring shipping season is now over, all stock sold up clean. Have had a very good year. Growing stock has come through the winter in good shape. Outlook for a large fruit crop very good.

Yours very truly,
EASTERLY NURSERY CO.

NURSERYMAN'S SHIPPERS' TABLE.

FEBRUARY 1, 1906.

FREIGHT CLASSIFICATIONS AND MINIMUM CAR LOAD WEIGHTS.—Rules and conditions governing railroad shipments and their handling of nursery stock, etc., within the United States.

THESE classifications are shown separately for each district, with references to the classification reports, giving numbers of the reports, also pages and items where same are to be found and to which railroad agents should be referred should there be any trouble in securing correct rates or full benefits of same.

All classifications are subject to R. R. Co.'s Bills of Lading.

L. C. L. signifies less than car loads. C. L., car loads. The figures or letters in these columns signify rate class.

N. O. S. signifies: Not otherwise specified.

NOTE.—On behalf of the railroad men, we wish to say that without exception they have received us cordially, have listened patiently to our talks, and from the modifications or changes that have been made in the classifications you see that when convinced that there were some burdensome classifications of our lines of freight, knowing our interests were mutual, they have made changes that to a large extent relieve or lighten those burdens, so that, with a few more slight changes which we hope for soon, we will most certainly have little or nothing to complain of in their classifications. Possibly the rates in some localities may be burdensome, but we feel sure in time they will be adjusted, as they are shown same.

CLAIMS.—We wish to repeat what was said at our West Baden meeting, June, 1905: Treat the railroad men as you would like to be treated; remember how you feel and what you think when some customer sends in a big kick and claim possibly for twice what you know to be correct, or holds you up for some mistake or oversight. Instead of hunting for some excuse to file claims and figuring to see how big you can make them, see if you can not excuse the mistake or oversight, or, if you have suffered heavy loss, make your claim not to exceed actual loss at wholesale prices. Kind and fair treatment of railroads by you will be reciprocated by them.

FAVOR such legislative supervision as will eliminate all favors in the way of SHIPPERS' PASSES, REBATES, etc. The questions of rates are being adjusted with development of business.

EXTRA COPIES of this table will be furnished members of the association to file with their railroad agents, etc., on application.

Issued by

W. C. REED,
Vincennes, Ind.,
Chairman Transportation Committee
Am. Ass'n Nurserymen.

E. ALBERTSON,
Bridgeport, Ind.,
Prest. A. A. N.

CLASSIFICATIONS now in effect in the OFFICIAL TERRITORY, which includes Illinois and the States east to the Atlantic, north of the Ohio and Potomac rivers:

Page.	Item.	OFFICAL CLASSIFICATION No. 27. Effective January 1st, 1906.	L. C. L.	C. L.
84	2	EXCELSIOR, In Bales.—Minimum weight for car loads, 20,000 lbs., subject to Rule 27, applying the scale	2	5
175	9	MOSS, Nursery.—Minimum weight 24,000 lbs.	1	5
	10	" Peat.—Minimum weight, 20,000 lbs	1	5
203	16	SAW DUST, Wood P. P.—Minimum weight, 24,000 lbs	4	6
208	2	SHAVINGS, N. O. S., Wood, in Bales.—Minimum weight, 20,000 lbs., subject to Rule 27	2	6
219	7	STONES, PEACH, in Barrels Bags or Casks.—Minimum weight, 30,000 lbs	4	6
227	25	TREES, Christmas, P. P.—Minimum weight, 20,000 lbs, subject to Rule 27.	1½	5
227	26	TREES, N. O. S., in bulk.—L. C. L. not taken.		
		N. O. S., in bundles, P. P.	1½	
		N. O. S., in bales, P. P.	1	
		N. O. S., in boxes, P. P.	R25	
		N. O. S., roots boxed, tops tied, P. P	1½	
		N. O. S., in carloads.—Minimum weight, 16,000 lbs., subject to Rule 27, P. P.		5

NOTE.—This table was taken from pocket edition and does not agree as to page and number with larger edition.

RULE 25, which applies to trees in boxes, reads: ARTICLES subject to this rule will be rated in L. C. L. or C. L., according as they are noted in L. C. L. or C. L. column of the classification, at 15 per cent. below second class rates, but not lower than third class rates (*see note*) subject to all other rules and conditions of the classification.

NOTE. In computing the above percentages of reduction, fractions of one-half cent or less shall be dropped, and those of more than one-half cent shall be considered as one cent, except as otherwise provided in the table of rates.

RULE 27, governing minimum weights on carloads, reads: When articles made subject in the body of the classification to the provisions of this rule are loaded in or on cars 36 feet 6 inches or less in length, they shall be charged at the minimum carload weights specified therefor in the classification (actual weight to be charged for when in excess of the minimum weights). If such articles are loaded in or on cars exceeding 36 feet 6 inches in length, the minimum carload weights to be charged shall be in accordance with the following table (actual weights to be charged for when in excess of the minimum weights).

NOTE. The length of cars referred to in this rule is based on the platform measurement of flat cars and inside measurement of all other cars.

See Rule 16 B governing prepayment or guarantee of freight charges.

TABLE.	Minimum Weight.	Minimum Weight.
Cars 36 ft. 6 in. and under	16,000	20,000
Cars over 36 ft. 6 in. and not over 38 ft. 6 in	17,600	22,000
" 38 " 6 " " 40 " 6 "	20,000	25,000
" 40 " 6 " " 42 " 6 "	22,400	28,000
" 42 " 6 " " 44 " 6 "	24,800	31,000
" 44 " 6 " " 46 " 6 "	26,400	33,000
" 46 " 6 " " 48 " 6 "	27,200	34,000
" 48 " 6 " " 50 " 6 "	28,800	36,000
" 50 " 6 "	40,000	50,000

WESTERN CLASSIFICATION covers the territory west of the Mississippi River to the Rocky Mountains and west and northwest from Chicago, with the exception of the territory controlled by the Southwestern Tariff Committee, which includes the states of Texas, parts of Oklahoma, Indian Territory and Louisiana. West of the Rocky Mountains is controlled by the Trans-Continental Freight Bureau, and part of the Missouri Valley by Trans-Missouri Committee.

These committees use the Western Classifications with such exceptions as they may make. We found, however, that the Trans-Continental and Trans-Missouri committees had made no exceptions affecting the nursery business, and the exceptions by the SOUTHWESTERN TARIFF COMMITTEE were cancelled as shown in their

SUPPLEMENT No. 23, ITEM 908. This leaves the Western Classification in force over all of territory mentioned above except shipments to and from points within the State of Texas, which are governed by the Texas R. R. Commission.

Page.	Item.	WESTERN CLASSIFICATION No. 39. Effective October 1st, 1906.	L. C. L.	C. L.
83	22	MOSS. N. O. S., pressed in bales, minimum weight 20,000 lbs.	2	5
85	15	NURSERY STOCK. P. P. or guaranteed, invoice value not exceeding $5.00 per 100 lbs. and so receipted for. Minimum weight on all car load shipments N. O. S. as follows:		
		Length of car. *Weight.*		
	16	36 ft. 6 in. or less ... 16,000 lbs.		
	17	Over 36 ft. 6 in. and not over 45 ft. 6 in. 20,000 lbs		
	18	Over 45 ft. 6 in ... 24,000 lbs.		
	27	ORANGE AND LEMON TREES. P. P. or Gtd. at carrier's option (when invoice value exceeds $5.00 per 100 lbs., shipments will be taken only under special contract) (exception to rule 4, which provides for 20% higher rate, not released).		
	28	BOXED, when same can be loaded in box or stock cars	3	A

Page.	Item.	WESTERN CLASSIFICATION No. 39. Effective October 1st, 1906.	L. C. L.	C. L.
85	29	BOXED, when too large to be loaded in box or stock cars	1	A
	30	IN BALES, completely wrapped, each weighing 100 lbs. or over	1	A
	31	IN BALES, each weighing less than 100 lbs.	D 1	A
	32	IN BUNDLES, roots wrapped, each bundle weighing 100 lbs. or over	1½	A
	33	PLANTS, N. O. S., and ROOTS, P. P. In Bales	D 1	
	35	In covered baskets	D 1	
		In boxes or crates	1	
	37	TREES. Dormant cuttings, seedlings, scions and shrubbery, N. O. S.		
	38	BOXED, when same can be loaded in box or stock cars	3	B
	39	BOXED, when too large to load in box or stock cars	1	B
	40	IN BALES or in bundles, with roots wrapped, actual weight CONSIGNMENTS not less than 100 lbs. each	1	B
	41	TREES, N. O. S., in bulk, C. L.		B
71	16	Shavings, N. O. S., pressed in bales	3	
		Minimum weight 24,000 lbs.		E
	15	Saw Dust, minimum weight 24,000 lbs (Waste excelsior [from excelsior factories], for nursery use, takes sawdust rate, and should be so billed.)		E
106	25	PEACH STONES. Minimum weight, 24,000 lbs.	4	5
85	48	CHERRY STONES. In barrels, boxes or bags... For nuts, etc., see page 85, items 44 to 49, inclusive and page 86, items 1 to 8, inclusive.	3	

Page.	SOUTHERN CLASSIFICATION No. 34, Covering that part of the United States south of the Ohio and Potomac Rivers, and east of the Mississippi River. Taking Effect January 10, 1906, and SUPPLEMENT No. 1, Taking Effect January 20, 1906.	Class.
28	Excelsior—Baled, L. C. L.	5
	Excelsior—Baled, C. L., minimum weight 20,000 lbs.	D
61	Shavings—Wood, N. O. S., baled, L. C. L.	5
	Same, minimum weight 20,000 lbs., C. L.	D
61	Peach Stones—Packed, L. C. L.	6
	Peach Stones—Packed or in bulk, C. L.	6
50	Moss—N. O. S., baled, L. C. L.	5
	Same, C. L., minimum weight 20,000 lbs	D
67	TREES AND SHRUBBERY, VIZ:	
	BALED, prepaid or guaranteed, L. C. L.	1
	Same, value limited to 3 cts, per lb.	2
	BOXED, prepaid or guaranteed, L. C. L.	2
	Same, value limited to 3 cts. per lb.	4
	IN BALES, BOXES OR BULK, owner's risk of loss or damage by heating, freezing or improper packing, and to be loaded by owners, prepaid or guaranteed, straight or mixed C. L, minimum weight 16,000 lbs.	4
	Same, value limited to 3 cts. per lb.	6
	Evergreens, for decorating purposes, prepaid or guaranteed, in bales, boxes, barrels or crates, L. C. L.	1
	Same, C. L., minimum weight 12,000 lbs.	3
	Plants—Strawberry, in baskets without overtop handles	1
	Plants—N. O. S., in bales	D 1
	Plants—In covered baskets	D 1
	Plants—In boxes or crates	1

In the Southern Classification the minimum weight of 16,000 lbs on trees in C. L. applies only to cars not exceeding 36 ft. in length, or per their rule—24 c, page 7, paragraph 3—which reads:

When a minimum carload weight of 20,000 pounds or less is specified, such minimum will apply when cars of 36 feet in length or less are used; but when cars exceeding 36 feet in length are used, the minimum carload weights shall be increased in accordance with the following table:

Cars not over 36 feet,							16,000	pounds.
Cars over	36	feet and not over		38	feet,		17,600	"
"	38	"	"	40	"		20,000	"
"	40	"	"	42	"		22,400	"
"	42	"	"	44	"		24,800	"
"	44	"	"	46	"		26,400	"
Cars over	46	feet and not over		48	feet,		27,200	"
"	48	"	"	50	"		28,800	"
"	50	feet					40,000	"

You will see from above table that 36-foot cars take a minimum of 16,000 pounds, and 40-foot cars take a minimum of 20,000 pounds in all of the different classification territories—or go to and from all points in the U. S. without change in minimum—while other sizes over 36 feet will have different minimums in the different territories, yet in most cases a lower minimum than herefore.

DO NOT overlook the fact that to secure the advantage of the BEST RATES in or into the WESTERN and SOUTHERN classification territories you must release your SHIPPING BILLS to value of 5 cents per pound in the Western and 3 cents per pound in the Southern territories, though shipments are made from or to territories covered by other classifications.

NEW YORK, March 20, 1906.

THE NATIONAL NURSERYMAN PUBLISHING CO., INC.,
Rochester, N. Y.

Gentlemen—When your representative visited us recently we told him we were protesting against the repeal of the "Import Commodity Tariff," and promised to advise him of results.

Perhaps you were not previously aware that on January 1st, 1906, the "Import Commodity Tariff" was withdrawn. This tariff permitted all import shipments to be shipped as "dormant plants," 2nd class L. C. L. less 15 per cent. and 5th class in carload lots.

The withdrawal of this tariff throws shipments back upon the Official Classification, which rules seedlings same as plants, 1st class L. C. L. and 2nd class C. L.

On March 15th, we filed protest with the Official Classification Committee against present classification. The protest was signed by six or seven of the principal shippers of nursery stock out of New York. This protest will be heard on April 3rd.

Another protest must be filed with the Import Committee, requesting the reinstatement of the "Import Commodity Tariff." This will be done as soon as the Import Committee is in a position to receive it and at that time we will also try and get the co-operation of the importers here.

These matters are of great importance to the nurserymen, as it considerably increases the freight rates from New York to destination.

Yours truly, MCHUTCHINSON & CO.

RETIRING FROM BUSINESS.

NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

We have never before made the announcement to the trade, but will say that we sold our nursery here with the good-will of the business last September, to Mr. Perry L. Bower, formerly of Fairbury, and expect to retire from the retail business and also from growing a general line of stock. We are thinking of growing some special lines strictly for the nursery trade. We have now been in the business 27 years, and are leaving the trade with some misgivings, as we have formed many pleasant acquaintances in the trade. However, other interests demand our attention, which will give us much less care.

Yours truly,

Beatrice, Neb., March 9, 1906. J. A. GAGE.

NATIONAL NURSERYMAN PUB. CO. INC.,
Rochester, N. Y.

Gentlemen:

Our advertisement with you brings us more returns than any other space we use.

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

JANESVILLE, CAL.

THE NATIONAL NURSERYMAN,
Rochester, N. Y.

Enclosed please find P. O. money order for $1.00 for my renewal to your valuable journal. I am pleased to inform my many friends and customers that I am overcoming my loss by fire and prospering in the nursery trade.

Respectfully yours,
ALONZO LOWE.

ECHOES FROM DALLAS.

EDITOR NATIONAL NURSERYMAN:

I am pleased to send you quite a little package of printed matter, which will give you a pretty general idea of Dallas and what attractions she has to offer to the visitor. Assuring you that Dallas will leave nothing undone for the pleasure and entertainment of the American Association of Nurserymen, I am, with cordial good wishes,

HUNDRED AND FIFTY THOUSAND CLUB.

Dallas, Tex.

DALLAS—THE CITY OF SPLENDID REALITIES.

Courtesy Review of Reviews.

Dallas has been called "The Chicago of the Southwest." It is a city of rush and energy and progress—a city of splendid realities and manifold opportunities. Probably no other city in the country is growing so rapidly or so substantially. Big things are being undertaken and accomplished. The spirit of progress is in the air, and the next few years are going to witness marvelous developments along all lines.

EXTRAORDINARY LOCATION AND GROWTH.

Dallas owes its present proud position as the metropolis of the Empire States of Texas, largely to its agricultural wealth. It is in the very center of the richest black-land farming belt in the world. It is also the chief beneficiary of hundreds of thousands of acres of timber and mineral lands located within a radius of two hundred miles. These important facts promise that Dallas shall, year after year, become more and more the headquarters for largely diversified agricultural pursuits and manufacturing industries in the South and West.

AGRICULTURAL AND MINERAL RESOURCES.

The natural resources of this chosen section cannot but impress the visitor. President Roosevelt, in his speech at Dallas, said: "North Texas is the Garden of the Lord." Dallas claims the proud distinction of being the center of this garden.

Within a radius of a hundred and fifty miles reside two and a half millions of people. Inside this "charmed circle" is raised one-sixth of the cotton crop of the world. Corn, wheat, oats, hay, alfalfa, rye and barley are grown in abundance. The fruit and trucking industry has assumed splendid proportions, the Northern markets depending largely on this section for their supply. The dairying industry is large, but, like the other diversified pursuits, is yet in its infancy.

SCHOOLS AND CHURCHES.

Dallas is not only great in the achievement of material things, but is equally great in the forward movement in culture and education. With her ninety-seven churches and fifty-nine colleges and schools, she occupies no mean position as a religious and educational center. Her libraries, public and private, take front rank, both in building and equipment. Her half-doezn splendid club houses, her numerous parks, theaters and places of recreation and amusement, are indicative of the fact that the attention of the people is not wholly devoted to money-getting. Dallas is not money-mad, but simply prosperous and happy.

The wonderful story of the growth of Dallas is but an instance of the progress of the entire State. Nature has blessed Texas most bountifully. From her bosom comes enough cotton to clothe a fifth of the people of the world; enough rice to feed every Jap and Chinaman; enough lumber to house all the homeless; enough iron to arm militant Russia; enough corn to make hoecakes for Christendom; enough beef to keep every packing-house busy; enough wheat to relieve the hunger of mankind; enough oil to grease every wheel in the universe; enough oats to give the world a breakfast; enough fruit to tickle the palate of every epicure; more marble than Vermont; more granite than New Hampshire; more gypsum than any other state, and more lignite and kaolin than the whole of Europe. Within her borders the population of America could be placed, and there would be fewer inhabitants to the square mile than Massachusetts now has.

Glorious, boundless Texas! Who can predict what the future holds in store for this magnificent empire?

PROJECTED TRIP OVER INTERNATIONAL AND GREAT NORTHERN RAILWAY.

Resolution by R. H. Bushway, seconded by E. H. Ricker.

Whereas, the National Nurserymen's Association of America, will hold their annual meeting in Dallas, next June, and, whereas, they are large investors in southern fruit lands and orchards, and it is deemed advisable to give them every opportunity to investigate the resources of our State; therefore, be it resolved, that the Industrial and Immigration Association of the International and Great Northern Country extend the said National Nurserymen's Association a cordial invitation to visit the International and Great Northern Country, and, to this end, request the officials of the road to extend them an invitation to take a trip over the line, that they may get an opportunity to inspect our orchards, gardens, etc."

Moved and seconded, that the Chair appoint a committee of fifteen members, as a Reception Committee, to visit Dallas and invite the National Nurserymen of America to visit the International and Great Northern Country. Mr. E. H. Ricker, of Willis, Texas, was made Chairman of this committee.

Motion by R. H. Thompson, that a committee of three be appointed, as a Transportation Committee, to take up the matter of transportation with Mr. D. J. Price, G. P. & T. A., I. & G. N. R. R., and make arrangements for the transportation of the National Nurserymen's Association and their entertainment while in the I. & G. N. Country. Unanimously adopted.

R. H. BUSHWAY, Chairman,
Palestine, Texas.

LAWS AND REGULATIONS RELATING TO SHIPMENTS OF NURSERY STOCK.

To complete and correct our tabulation of the regulations governing the shipment of nursery stock in the United States and Canada, published last month, we insert the following:

TEXAS—"All nursery stock consigned for shipment or shipped by freight, express or other means of transportation shall be accompanied by a copy of said certificate attached to each car, box, bale, bundle or package.

"Any person selling or consigning for shipment or shipping nursery stock as above without such certificate attached, shall be guilty of a misdemeanor and shall be punished by a fine not less than $100 nor more than $500.

"All nursery stock brought into this State from outside of the State must be accompanied by a certificate from the consignor that it has been fumigated as aforesaid."

"Each and every shipment, box, bundle or package of nursery stock shipped into Oklahoma must bear a tag upon which is a printed copy of the *Certificate of inspection issued from this office* bearing the facsimile signature of the secretary of this Board. This tag is necessary to secure release from agent of common carrier at destination, and can be procured only through this office and at the following prices: Dennison's G. G. quality, size 5, with copy of certificate printed on one side, the opposite side blank, 75 cts. per hundred, $1.75 per 500, $2.50 per 1000. Prices on tags of special quality, size or design will be furnished on application.

"All consignments not so labeled are liable to seizure, confiscation and destruction by the entomologist or inspector of this Board."

Mr. Benjamin Chase, wife and daughter, of Derry, N. H., left February 13th for a three months' trip to Egypt and the Holy Lands.

Legislation.

BUSINESS MOVEMENTS.

REGULATIONS OF THE GEORGIA STATE BOARD OF ENTOMOLOGY AFFECTING NURSERYMEN.

This board met on January 26, 1906, and passed a number of regulations in addition to those which were already in force. These all aim to govern more rigidly the possible introduction of the cotton boll weevil. Incidentally, they affect the movement of nursery stock in an important way. Regulation 5 says that "Shipments of nursery stock, fruit and truck into this State from points in the states of Texas and Louisiana, shall be admitted only when none of the articles mentioned in Regulation 1 are used in packing same, unless such shipment be accompanied by a certificate saying that it originated in the locality where, by actual inspection, the Mexican cotton boll weevil was not found to exist."

The packing materials which are barred, unless inspected, are cotton lint, cotton seed, seed cotton, hulls, seed cotton and cotton seed sacks which have been used, and corn in the shuck. These regulations are specially directed against those points in the states of Texas and Louisiana, where the boll weevil is supposed to exist. Shipments are absolutely forbidden unless accompanied by certificate of inspection. Shipments may be made through the State in sealed cars. Household goods, furniture, and all materials in which packing of the kind described above are included in the regulations, and the transportation companies are enjoined to notify the State Entomologist when, by any slip, a shipment is made into the state and has not been properly inspected.

W. E. MacElderay & Co., of Booneville, Ind., are extending their nursery by concentrating their main business at Princeton, Ind, where they have purchased ground, and to which they expect to transfer their stock.

The McGriff Fruit Co., North Ogden, Weber Co., Utah, has been recently incorporated, with a capital of $12,000. This company will do a general fruit and commission business.

Mr. R. G. Chase, of Geneva, was a welcome visitor at the editorial office of the NATIONAL NURSERYMAN about the middle of last month.

TRANSPORTATION QUESTIONS.

The fruit interests and fruit growers of California received a decided jar by the decision of the U. S. Supreme Court, which says that railways have a right to "route" fruit shipments in any way they please. This decision is based on the general ground that the "routing" agreement violated no provision of the Interstate Commerce Laws act, and that there was no evidence in the case to show that any such violation had occurred; and further, that it actually aided in preventing rebates. California fruit growers are very much wrought up over this decision, but there seems to be nothing to do but accept it.

FIRES.

The storage house of F. A. Myers & Brother, of Ashland, Ohio, manufacturers of spray pumps and agricultural implements, was destroyed by fire on January 19th. The loss was partially covered by insurance.

The offices of Green's Nursery Company, Rochester, N. Y., were totally destroyed by fire in the 8th of March. With the building went the season's orders, entailing a great loss of business. Mr. Green and his associates have the sympathy of their brethren in the trade.

AGAINST FREE SEEDS.

The House Committee on Agriculture at Washington decided to report against the appropriation for free seeds by the Agricultural Department. Whether this will kill the appropriation and choke off the practice, is entirely another matter. It is altogether likely that the question will come up on the floor of the House, and that the appropriation will be reinstated. It is, however, an important step, inasmuch as it is the first time that the advisability of making this gratuitous distribution has been even seriously questioned.

GERMAN TARIFF DEFERRED.

The last issue of this paper announced the going into effect of the German tariff. This was scheduled to take effect on the first of March, but in the last days of February, the German government took action upon the matter again, and extended the reciprocal tariff rates to this country until the end of June, 1907. This will have an important influence upon the shipping of fruit.

BURNHAM-HITCHINGS-PIERSON CO.

About a year ago the newspapers announced the consummation of one of the most powerful greenhouse-building organizations that we have had up to the present time. This was the Burnham-Hitchings-Pierson Co. We are now informed that this company has dissolved partnership, and that the individuals will take up business again in their own old lines. Messrs. Lord and Burnham renew their efforts to build the best greenhouses in the country, while the Hitchings Company, famous for its boilers, returns to that specialty, and the Pierson people to their construction work again. Perhaps, after all, a healthy competition will be better in the long run for the consumer.

A CORRECTION.

EDITOR NATIONAL NURSERYMAN:

I find a mistake in the shipper's table in regard to the western classification. Where it says "effective October 1, 1906," it should read "October 1, 1905." Please call attention of nurserymen to this so they can correct same. It seems to have been a mistake of the printer.

W. C REED,
Chairman Transportation Committee.

ADDITIONAL CONTRIBUTIONS FOR COMMITTEE WORK.

Montana Nursery Co., Missoula, Mont.,	$ 5.00
Brown Bros. Co., Rochester, N. Y.,	25.00
Hoopes Bro. & Thomas, West Chester, Pa.,	25.00
Wm. Warner Harper, Chestnut Hill, Philadelphia, Pa.,	10.00

The H. E. Hooker Company have leased the Hosea Rogers farm consisting of one hundred and forty acres of the finest land in Monroe County, located on St. Paul street in the town of Irondequoit and adjoining Seneca Park East where they intend continuing their nursery plantings on a more extensive scale than ever.

This farm is located in the famous market garden section of Western New York, only half a mile from the city line on St. Paul street and is of easy access by the Summerville trolley line during the summer season. Mr. Ades, who has been manager of the business for so many years will reside at the farm, and have personal supervision of the planting and growing of stock.

FRUIT GROWERS DO NOT WANT GOVERNMENT INSPECTION.

At the last meeting of the State Fruit Growers' Association, and also that of the Western New York Horticultural Society, resolutions were presented favoring the passage of a "federal enactment which shall adequately define the various grades of apples, and provide a suitable mark to characterize each." Both societies referred the resolutions to their respective legislative committees; and we learn that, at a joint meeting held in Geneva, March 22, action was taken in which the declaration was made that "we find many and serious objections to it, and very little, comparatively, to commend. We believe it would be against the interest of apple growers and the public in general."

AMERICAN CIVIC ASSOCIATION.

All persons interested in the improvement of homes, in towns or villages, or in the country, should know of the work of the American Civic Association. All persons who are not interested in these fields should have their attention specially directed to this great work. The literature, which is periodically distributed, is of unquestioned value. Not only is it generally stimulating, but the pamphlets issued on specific topics are technically valuable. Just now a leaflet, No. 8 of the Department of Nuisances, comes to our table. This contains a discussion of the mosquito nuisance, and first gives a brief life history of the insect with such illustrations as will enable the novice to separate the malarial from the non-malarial type, and closes with concise directions for the best means to institute in order to abate the nuisance. It also contains a bibliography of mosquito literature, which is exceedingly timely.

The association sends out bulletins and clipping sheets. Up to September first, 1905, the association had distributed over 200,000 pieces of printed matter. The clipping sheets are for the use of periodicals and contain concise statements regarding civic activity, in this or that city. These statements contain suggestions which may be at once put into practice by village improvement societies, and are of great service to the beginner in this work. The unselfish efforts of the men who are promoting this association are to be unqualifiedly commended. The thing that the association needs, to make its work more effective and influential in the country at large, is money. Those who wish to help the good work along should communicate with the American Civic Association, 121 South Broad St., Philadelphia.

CONFERENCE OF DOMINION FRUIT GROWERS.

A convention of fruit growers in Canada occurred in Ottawa on March 20, 21, and 22. This was held under the auspices of the Dominion Department of Agriculture. Delegates from each province were appointed, and we suppose that their expenses were paid in order to insure their attendance. The following were the delegates from the respective provinces. The reference to the payment of expenses is not made in the critical spirit, but merely to draw attention to the paternal type of relation which obtains between the Dominion government and the fruit interests of Canada.

Ontario—Harold Jones, E. Lick, W. H. Bunting, Robert Thompson, M. Pettit, A. W. Peart, J. L. Hilborn, (W. D. A. Ross), D. Johnson, A. E. Sherrington. Nova Scotia—Ralph Eaton, R. W. Starr, G. C. Miller, W. H. Sangster, S. C. Parker. Prince Edward Island—Reverend Father Burke, A. E. Dewar, Professor Ready. Quebec—G. Reynaud, La Trappe; J. M. Fiske, Abbotsford; N. E. Jack, Chateauguay Basin; R. W. Shepherd, Como; Robert Brodie, Westmount.

AMONG THE GROWERS.

The Michigan Horticultural Society is endeavoring to effect a federation of all the principal fruit growers in the Michigan belt. The purpose of this federation will be to improve marketing conditions. The aim is to have one central officer who will supervise the marketing and shipping. His business will be to attend to a distribution in order to prevent glutting or undersupply. Michigan fruit growers are also in favor of passing a law requiring each grower to stamp all sealed packages of fruit with his name and address.

The region about Tyler, Texas, anticipates a large crop of strawberries. The Fruit and Truck Growers' Association of that section has decided to advertise for 1,000 berry pickers. The season will open up about the 10th of April.

Alabama strawberry growers are already shipping berries. Car lots were started from the vicinity of Brewerton about the 25th of March. The yield promises to be large in this vicinity.

MICHIGAN FRUIT GROWERS.

The mid-winter meeting of the Michigan State Horticultural Society was held at Hartford, Mich., on February 27-28. An excellent program was carried out by the assistance of Hon. Charles W. Garfield, T. A. Farrand, South Haven, L. R. Taft, and S. W. Fletcher, Agricultural College.

Quiz Column.

COMMERCIAL FERTILIZERS FOR NURSERY STOCK.

What commercial fertilizer is the best to use in growing nursery stock—when and how applied? SUBSCRIBER.

It is well in the preparation of soil for nursery stock to plow deeply and thoroughly, and to apply about 30 bushels of lime per acre, well worked into the soil. The fertilizers should supply an abundance of the mineral elements, phosphoric acid and potash, and may be largely applied previous to planting the seed or young plants, while the nitrogen used should be adjusted more carefully, in order to prevent an undue growth late in the season. This application is applied broadcast, and thoroughly mixed with the soil. I should recommend a fertilizer of about the following composition, to be applied broadcast and thoroughly worked into the soil previous to the growth of the plants, and at the rate of 1,000 pounds per acre:

Nitrogen,	3 per cent.
Available phosphoric acid,	8 "
Potash,	8 "

The nitrogen to be derived from organic forms, as dried blood or tankage; the phosphoric acid from ground bone and acid phosphate, preferably one-third from the former and two-thirds from the latter; the potash may be derived from muriate.

After the stock has made a good start in the spring of the following season, the same fertilizer may be applied between the rows and cultivated in, and in order to ensure a rapid, early growth, there should be added in addition to this fertilizer 200 pounds per acre of nitrate of soda. It is quite important that the nitrate should be applied early in order that the plant may absorb and assimilate it before the late summer, and thus not cause too large a proportion of immature wood. Naturally the amounts applied as indicated here, would vary somewhat with the character of the soil—on very light soils the amounts may be increased materially.

[Prof.] E. B. VOORHEES,
Director New Jersey Exp. Station.

PROPAGATING QUESTIONS.

1. Can the Silver-leaved Poplar—Populus alba, var. nivea—be satisfactorily budded or grafted on any stock that does not sprout? If so, on what stock? D. IND.
2. What is the best stock on which to propagate lilac?

If your correspondent would get stocks of the Populus Bolleana, which had been raised from cuttings and not budded on the Silver Poplar, he could use them as a stock upon which to bud the Populus alba, var. nivea, and there would be no suckers produced; but he would have to be careful to get stocks of the Bolleana that had been raised from cuttings. I know of no other variety of Poplar that he could use for the purpose without danger of suckering.

Privet is a good stock for budding lilac, and to all intents and purposes we believe it is quite as good as the common lilac, and, in fact, from one point of view I consider it better, as both the lilac and Privet stock will sucker, and consequently anyone can see the Privet sucker coming up and can keep it cut off, whereas if the lilac suckers come up they are apt to think it is a part of the original plant and as a result in time they will have a mixed plant. California Privet has been mostly used as a stock. On the whole, we prefer the California Privet. It seems to take the bud the best of all varieties.

THOMAS MEEHAN & SONS, Inc.,
Dreshertown, Pa. Thomas B. Meehan, Sec'y and Treas.

We prefer the California Privet as a stock for the lilac.
Rochester, N. Y. ELLWANGER & BARRY.

California Privet (Ligustrum Oralifoluim) is the best stock for grafting lilacs upon. P. J. BERCKMANS CO.
Augusta, Ga.

The proceedings of the second annual meeting of the Alabama State Horticultural Society appears in a neat pamphlet of 51 pages, and is embellished by attractive photographs of work in progress in the Huntsville Wholesale Nurseries.

SAN JOSÉ SCALE—THE OUTLOOK FOR THE FRUIT GROWER AND NURSERYMAN.

BY C. L. MARLATT, ASSISTANT CHIEF OF BUREAU OF ENTOMOLOGY, UNITED STATES DEPARTMENT OF AGRICULTURE.

The San José scale, since its appearance on the Atlantic seaboard in the early 90's has, in spite of all efforts at control, in nurseries and by state quarantine, spread all over the eastern and middle United States and into Canada, so that there are now very few regions where fruit growing is at all important, where it has not gained permanent foothold. A few of the middle western states, as, for example, Iowa, have not so far reported this scale insect, but it is only a question of time when it will complete its extension over the entire fruit growing areas of North America within its climatic range. The early fears as to the seriousness of this scale pest to the deciduous fruit interests have been more than borne out, and very great losses have resulted to this industry. Nevertheless, the San José scale has not been an unmitigated scourge, and the active investigations by the Bureau of Entomology of the United States Department of Agriculture and the entomologists of the state's experiment stations have demonstrated the practicability of several means of control, and particularly of the lime-sulphur wash; so that the fears aroused by this scale insect are rapidly subsiding, and it no longer is considered at all as an insurmountable obstacle to the growth of deciduous fruits. In the case of certain fruits as, for example, the peach, it has been found that the lime-sulphur wash has a very great value as a fungicide, and so much so that some growers are recommending its use whether the San José scale be present in the orchard or not. Furthermore, the presence of this scale has lead to much more careful methods of planting and care of stock, thus raising the standard and giving the intelligent and conscientious, painstaking grower a distinct advantage over his careless neighbor. The results in the East, in other words, are following rather closely on the experience in California and elsewhere on the Pacific coast, where the San José scale, long looked on as the worst menace of the deciduous fruit interests, is now not necessarily so regarded, and the same benefits have come to California fruit growing by the use of better methods of planting, pruning and care.

NOT A BLESSING, AN EDUCATING AGENT.

This does not mean that the San José scale is to be looked upon as a blessing. The benefits of spraying are not always uniform, and are less perhaps in the case of the apple than they are with the peach, pear, and the smoother barked fruit trees. The necessity of annual spraying of the trees is now clearly shown, and this amounts to a very large annual cost, partly offset, as already indicated, by the fungicidal value of the standard lime-sulphur application. Nevertheless, neither the injuries from the scale nor the cost of treatment, have put more than a temporary check upon the advance of the fruit industry, and great confidence is being expressed by the larger commercial growers, who follow out the remedies with greatest thoroughness and in the most practical manner, and who consequently get the best results. It is now largely a matter of getting the owners of small orchards to follow a regular annual system of spraying their trees.

The San José scale has not only resulted in a considerable increase of information as to remedies and to improvements in the methods of culture which directly relate to itself, but it has been a stimulus to improved methods and more efficient means of control of other common pests, and has also demonstrated the necessity of watchfulness against the introduction of other similar pests, and has led to active efforts in this direction on the part of practically all of the several states of the Union.

CONTROL BY PARASITES DOUBTFUL.

The control of the San José scale by parasitic or predaceous enemies is increasing all the time, but there seems to be no likelihood that either such natural enemies now in this country or those which may be imported will ever act more than to merely lessen the abundance of the scale. In other words, from past experience and from large acquaintance with other similar scale pests, it is extremely improbable that even under the most favorable circumstances such natural enemies will reduce this scale as much as would one thorough treatment with the lime-sulphur wash or other standard remedy. The insect enemy of the scale can only subsist when it has scale food, and hence very soon a normal balance is reached in which the scale and natural enemy fluctuate in relative abundance. A complete extermination of the scale insect, or host, will rarely if ever be reached, and there will probably always be enough scale present to cause spotted and unmarketable fruit. This does not mean that such enemies are not going to be helpful. They will decrease the virulence and destructiveness of the scale, but to get clean fruit it will probably be always necessary to spray. A very few scale on a tree will cause spotted fruit, even when they may not be abundant enough to do the tree itself material injury. The fact that a large succulent scale insect, like the fluted scale of California has been controlled by a ladybird enemy, does not necessarily allow one to hope for the same result with the San José scale. The ladybird and other enemies introduced into California to control scales similar to the San José scale, have not succeeded in the same measure at all. This statement is made to correct hopes which may be aroused by certain popular articles which have recently appeared on the subject of parasites.

In brief, therefore, the San José scale must be recognized as a permanent condition to be met in the growth of deciduous fruits. The greatest care should always be taken in the purchase of nursery stock, to see that it is absolutely free from infestation, and preferably also, that it carries with it a certificate of fumigation.

REMEDIES.

A great many new remedies are coming up and being exploited. Many of these are of little value, or are mere efforts to commercialize under new names the remedies with which the fruit grower is already familiar. Perhaps the best of the new remedies are the so-called miscible oils. These are, practically, kerosene, treated in some secret way to make it mix readily with water. Such substances are undoubtedly good remedies if used at the proper strengths; but in most cases they are recommended to the fruit grower at a much higher rate of dilution than will bring satisfactory results, and the expense of their application is very much greater than in the standard preparations of oils, such as kerosene emulsions, or oil-water mixtures, and very much more expensive, of course, than the lime-sulphur wash. They have, furthermore, the same chance of injury to the tree which comes from the use of kerosene in other ways, if they be improperly applied. There is, however, a possible place for such proprietary remedies, namely, for the small grower, or the man with a few trees only to treat, who would not under ordinary circumstances be willing to go to the trouble of preparing the lime-sulphur wash or kerosene emulsion.

AN IMPORTANT CANADIAN FRUIT GROWERS' CONFERENCE.

A very important conference of fruit growers and others interested in fruit took place at Ottawa, the capital of the Dominion of Canada, on March 20th, 21st and 22nd. This conference was called by the Hon. Sydney Fisher, Minister of Agriculture, with the object of having such questions relating to the fruit industry discussed as affected in common all the provinces of Canada. Every province of the Dominion was represented at this conference, the expenses of the delegates being met by the Dominion Government. Each province was allowed a certain number of delegates, most of whom were appointed by the Provincial Fruit Growers' Associations. Twenty-nine persons in all were thus appointed, but in addition to these a general invitation was given to others representing various interests connected with the fruit business. The most important subjects chosen for discussion were :

1—The Fruit Marks Act, Amendments.
2—Packages.
3—Transportation of Fruits.
4—Markets and Marketing.
5—Statistics and Fruit Crop Reports.
6—Experiment Station Work.
7—Adulteration of Food Products.
8—Fruit Exhibits at Fall Fares.

The Hon. Sydney Fisher, Minister of Agriculture, occupied the chair at all the business sessions of the conference, as the resolutions passed were mainly referred to his department and he wished to be quite familiar with the various questions involved, some of which if carried out will require legislation.

In 1901 a Fruit Marks Act was passed in Canada for the purpose of preventing fraud in the packing of fruit. This Act on the whole has worked satisfactorily, but some necessary amendments having become apparent, these were presented for consideration at the conference. In the original Act the only grade of fruit which was clearly defined was the No. 1. Resolutions were passed at this meeting recommending a grade of apples called "Fancy," and also clearly defining a No. 2 grade of apples. If these resolutions become law, a "Fancy" grade will consist of well grown specimens of one variety, sound, of uniform and at least normal size and of a good color for the variety, and of normal shape, and properly packed. According to the resolution all the fruit of this grade should be perfect, but instructions will probably be given to the inspectors to use a little leniency when considered advisable, as it would be very difficult to have every specimen perfect, although absolute perfection is aimed at. The No. 2 grade of apples had not hitherto been clearly defined, and as a result fruit which was really little better than culls had been sometimes sold as No. 2. After much discussion the following definition of a No. 2 grade was adopted by the conference : A No. 2 grade shall "consist of specimens of nearly medium size for the variety and of not less than 80 per cent. free from worm holes and from such other defects as cause material waste, and properly packed."

In the Fruit Marks Act, packers were allowed to use either the X marks or numbers to indicate the grade of the fruit. A resolution was passed to amend this Act so as to prohibit the use of any marks indicating the grade of the fruit except Fancy, No. 1, No. 2, and No. 3, the four grades only which will in future be recognized if the resolution becomes law.

There was a very animated discussion on packages for fruit. It has long been felt that it would be in the interest of Canadian fruit growers if there was a uniform barrel for apples throughout Canada. While there is a law at present making the minimum sized barrel one holding ninety-six quarts, the growers of Ontario use a larger barrel, while the Nova Scotia fruit growers use the minimum size. A resolution was passed recommending the minimum sized barrel as the standard throughout Canada and the only one that may be used ; the law to come into effect in two years.

There is a legal box in Canada the minimum size of which is 10 x 11 x 20 inches inside measurement. The law as it stands at present only affects the export trade. A resolution was passed to make this minimum size apply to the home markets as well. A resolution was also passed to make it compulsory to put marks on the end of the box.

Resolutions were passed looking to the better and cheaper transportation of fruit on land and water. The advisability of licensing commission merchants to prevent the loss which sometimes occurs from dealing with dishonest men was also discussed. A resolution was passed recommending the exploitation of fruit markets in Great Britain, Europe and South Africa. It was urged that at the next census more details should be given regarding fruit statistics ; that the fruit-crops reports which had been published by the Government during the past year be continued and improved, and that more information be obtained and disseminated regarding fruit crops and markets in other countries.

Experiment station work in the various provinces was discussed and recommendations made for the continuation and increasing of such work. There was an interesting discussion on the adulteration of jams and jellies which may lead to a larger percentage of pure material being sold. A resolution favoring the formation of a Dominion Horticultural Organization was proposed, but as a promise was made to hold another Dominion Conference under Government auspices at no distant date this resolution was withdrawn.

This Conference was the most important gathering of fruit growers, packers and shippers ever held in Canada and should have far-reaching results. The fruit industry of Canada is developing by leaps and bounds, and every effort is being made to regulate the fruit business so that the fruit sent to market will be as fine and as uniform as possible, so as to meet and overcome competition from other countries.

A report of this Conference will be published by the Department of Agriculture, Ottawa, Canada.

W. T. Macoun,
Horticulturist, Experimental Farm.
Ottawa, Canada.

Obituary.

LUCIAN T. YEOMANS.

The fruit interests of Western New York lost a strong man in the death quite recently of the former president of the New York State Fruit Growers' Association, and for many years a member of the firm of T. G. Yeomans & Sons, Walworth, Wayne Co., N. Y. The senior member of this firm, T. G. Yeomans, carried on for a great many years a successful nursery business at Walworth. He was instrumental in establishing the great apple orchard industry of Wayne County, and was associated with the progress of agriculture generally in the western part of the State. His son, Lucian T., who has just died, was a worthy successor, and was associated with all good work making for the progress of agriculture. Though never robust, he did not spare himself where public duty was concerned, and constantly labored for the promotion of fruit culture. Mr. Yeomans leaves a widow, a sister of ex-President Cleveland, and five children. His passing will be noted with deep regret by his co-workers in Western New York.

GEORGE WIETOR.

Mr. Wietor's death occurred in Chicago on Tuesday, February 6th. In the passing of this man at the ripe age of seventy-three years, Chicago loses a prominent gardener and florist. Recently his specialty has been roses, carnations and chrysanthemums. Under the name of Wietor Brothers, the firm has grown to very impressive dimensions. Mr. Wietor has always taken a very prominent part in floricultural meetings, and he will be greatly missed in the councils of this society.

SAMUAL HARTWELL.

Samual Hartwell, fruit grower of Lincoln, Mass., died February 21, aged 72 years. He was for a number of years a working member of the Massachusetts Horticultural Society.

Fumigating House of Prominent Ohio Nurseryman.

THE CONVENTION.

SUGGESTIONS FOR THE PROGRAM COMMITTEE.

The following hints and notions are offered without any direct charge or commission to the members of the Program Committee. These suggestions have been offered at the solicitation of the NATIONAL NURSERYMAN. If they are gratuitous and superfluous the Program Committee is requested to jump on the editor of this journal and not on the generous friends who responded to his importunities.

MORE DISCUSSION.

March 6, 1906.

EDITOR NATIONAL NURSERYMAN:

Last year was the writer's first attendance at a meeting of the Association and I doubt my ability to offer any suggestions that would be of value. My first impression was gathered by comparing this meeting to the various horticultural meetings that I have attended here in the West. The program at West Baden was very well arranged and the papers were all very interesting. It seemed to me, however, that there was not so much freedom in discussion as there should have been. It is hard to say whether the program is at fault in this or not. We have a large Horticultural Society in our State and at our conventions we make a specialty of the discussion feature. We aim to have short papers so as to make more of this feature. It works most successfully but much depends upon the presiding officer.

THE JEWELL NURSERY CO.,

Lake City, Minn. Roy Underwood.

THE BUSINESS SIDE

March 6, 1906.

The things that I feel are of great interest at the present time are the methods of maintaining prices on a profitable basis. A paper which I heard spoken of by a great number of nurserymen as one in which they were deeply interested, was the one on Office Management by T. B. Meehan. I think a paper of this kind could be repeated, and not only that, but a paper on the management of the packing and shipping houses. That is one end of the business that I feel does not get the attention that it deserves, judging from the way the stock comes in to us here.

THE ANDORRA NURSERIES,

Chestnut Hill, Pa. J. H. Humphreys.

FREDONIA HEARD FROM.

EDITOR NATIONAL NURSERYMAN.

I don't know that I can make any suggestion that would greatly benefit the Association. I might suggest that the boys don't drink much (except of apollinaris); a few swallows, as a microbe killer of course, may not be out of order. Personally I am not a judge, having been on the water-wagon so long that I am not up on the best brands. I would suggest by all means that if the boys load up at all, it will be with a grist of good stories. When I say good stories I mean Sunday School stories, such as we consume at our Banquets and elsewhere. Seriously I hope we shall go down to Texas and have a good time. We can count on brother Yates to engage all the appropriate cattle cars for us. I am doing considerable now of something I hate to do; viz., work; still I don't suppose I could exist without it either physically or financially.

Yours for the happy simple life,

Fredonia, N. Y. GEO. S. JOSSELYN.

NO PAPERS: TALKS OFF THE BAT.

March 5, 1906.

EDITOR NATIONAL NURSERYMAN.

I think you realize that I have been deeply interested in the programmes of the Nurserymen's Conventions for some years.

My present thought is that the meetings should be made as concrete as possible; that no man should be permitted to have a paper read, but should present his views; that papers should be limited to twenty minutes, with time for discussion; and that the discussion should be "set up" in advance; that is, that two or three persons should be assigned to start the discussion.

All this is trite, and has been worked out before. As to subjects, I can only reiterate two points that I have previously made, and that are more important now than ever they were before.

The first is the growing importance of ornamentals for nurserymen who are wide awake enough to look a few years into the future. There ought to be strong papers on this subject, with a discussion of little known but perfectly worthy native American plants that are not properly used because they are not known. Many an amateur gardener knows ten times as much about the best hardy native plants as the average nurseryman.

The other subject is the extreme importance of having every nurseryman take a vigorous interest in civic improvement in his own locality. This is not only his duty as a citizen, but his business as a nurseryman, for it is almost impossible to have civic improvement proceed without the buying and planting of trees, shrubs, etc. The entire body of nurserymen ought to be members of the American Civic Association and be the most active forces in their communities.

The past three years have only increased my estimation of the importance of these two subjects to nurserymen. I shall keep pounding away on the same line right along, whether the nurserymen swallow the medicine or not.

Yours truly,

Harrisburg, Pa. J. HORACE MCFARLAND.

MORE TIME FOR DISCUSSION—ONE SESSION EACH DAY.

EDITOR NATIONAL NURSERRMAN:

I think our programs for the last two years have been too crowded. It is perhaps all right to allot so many minutes to each speaker who is named on the program but discussions should not be crowded out, as last year, simply to get through the program. There were many papers that were read and considerable discussion which could have been prolonged to advantage while, on the other hand, some of the discussion on certain topics might have been excluded without particular loss. It is a waste of time to thrash over matters that have been talked about until they are dry. I am inclined to think also that it would be better to have only one session per day instead of having one in the morning and one in the afternoon.

I think that the matter of exhibitions should be encouraged and that those who have tools and implements that are especially adapted to the use of nurserymen should be urged to exhibit them. There is not enough of that done and yet these implements are a very important part of our business.

I am very much in favor of the banquets. The one we had last year was first class and we don't want to miss it this year, but it should not be crowded into the last day either, because so many people miss it by being obliged to cut out in order to catch a train. A banquet promotes the social features of an association of this kind and after all, that is one of the best things of our association. These discussions and papers are all right in their way, but after all, it is the little social gatherings in the hotel corridors that are really the life of the association.

Dreshertown, Pa. THOMAS B. MEEHAN.

CHANGE OF OFFICE.

We are advised that Mr Harlan P. Kelsey, the noted propagator of native trees and shrubs, who has up to the present time held an office in Beacon Building, Boston, Mass., has removed his business headquarters to Salem, Mass., where his nursery is also established.

Henry W. Van Der Bom, nurseryman, Oudenbosch, Holland, sailed for United States March 19th.

WORKINGS OF SCALE INSPECTION LAW IN NEW YORK STATE.

GEORGE W. ATWOOD, STATE NURSERY INSPECTOR.

San José scale inspection in the State of New York, as conducted under Sections 82 and 83 of the Agricultural Law, is done under three general heads, viz.: Nursery inspection; shipment inspection; orchard inspection.

Nursery inspection is in order throughout the year. In the larger as well as the smaller nurseries wherever near an infested area, are constantly under the serveilance of an inspector, whose services are called for frequently. The small nurseries where "bearing age" stock is raised are the cause of the most trouble, but many of them are not now growing any kind of trees that are susceptible to scale. There are no nurseries in the State over five acres in extent that are generally infested with scale. Many of our largest nurseries never had any scale. While a small number of our large nurseries have had a few infested trees near orchards or near a few infested trees that have been brought in from outside. The care of the nurseries has been of the first importance, as it is regarded that it is through the medium of nursery stock that scale is distributed. Some of our nurserymen have dug and burned whole blocks of trees, in some cases several thousand, when not one per cent. were known to be infested. This course is expensive but commendable, for it cleans up effectively. Our persistent inspection keeps the nurseries free from scale, and it is a rare thing for any infested trees to escape into shipments. In addition we have the further assistance of helpful fumigation of all stock grown within a half mile of an infested section, whether it is on the premises of the owner of the trees or others.

SHIPMENTS INSPECTED.

Shipment inspection means the examination of all stock shipped into the State. Transportation companies are required to notify the commissioner of shipments into the State and the inspectors keep watch at the large centers. In 1903 over 200,000 trees and shrubs were inspected; 99 shipments contained 17,600 trees infested with San José scale and were destroyed. In 1904 1,500 trees were infested and destroyed, and many consignments were returned. In 1905 about 5,000 infested trees were found in shipments and destroyed.

ORCHARDS INSPECTED.

Orchard inspection is conducted so far as possible, throughout the State, but particularly when requested. What work is done is therefore in sections which are under suspicion. Each year for the last three years, 800 to 900 orchards, covering 7,000 acres and embracing 700,000 to 800,000 trees have been carefully inspected. Never more than 200 orchards have been found infested with scale. The last United States census reported 21,000,000 orchard trees of "bearing age"; if we add 10,000,000 more for young orchard trees and estimate 200 trees to an orchard, we have about one orchard to each 750 orchards in the State infested, so far as is now known. Scale is being found in new sections of our fruit belts and unfortunately in orchards that were planted before scale came to the Atlantic coast states. It is the policy of the Department to keep the scale out of the nurseries and to insist on fumigation as a safeguard. Shipments into the State must be closely watched. Orchards, when even slightly infested, should be sprayed thoroughly with the best known remedy, which, to-day, I believe, is the lime-sulphur mixture. Nurserymen will continue to be cautious about introducing scale into their stock. They will eradicate it when found. Some of them could be more careful about the source of supply of buds and scions, both of which should be fumigated before setting. Fumigation properly done, is safe and the nearest perfect thing to fire yet discovered.

WILLIAMSPORT, MD., March 5, 1906.

The Town election held March 5, at Williamsport, Md., resulted in the election of the following ticket, Jonh B. Fleming, Burgess; John B. Newcomer, Assistant Burgess; H. C. Ardinger, Commissioner; W. T. Baker, Commissioner. Mr. Fleming is a member of the firm of Fleming & Hetzer, Nurserymen, Williamsport, Maryland.

Editorial Rambles.

OBSERVATIONS SOUTHWARDS.

These notes are being jotted down as the Southern Railway carries the writer through the prosperous and thriving fruit and cotton growing region between Columbia, S. C., and Augusta, Ga.

The scene has changed marvellously since leaving the snow-clad hills of central New York three days ago. The change would be all the more striking were it not that the cold wave of the third week of March was as wide as the continent though not nearly so intense in the South as in the North. Nevertheless an overcoat is not at all uncomfortable this moment some fifty miles north of Augusta.

On the way down we said "Hello" to a number of nurserymen. At Philadelphia we found that Thos. B. Meehan had been able to dig and handle stock from the nursery practically all winter. This circumstance had so effectively forwarded his work that he did not fear the customary spring rush though trade had been excellent.

At Washington Forsythia was in bloom (March 18) and Japan quince making bud. A visit to the pomological division and the Bureau of Plant Industry discovered the men hard at work Saturday afternoon notwithstanding. Col. Brackett and Assistant Chief Taylor are full of plans and projects for the advancement of commercial and scientific pomology.

Secretary Wilson shows a remarkable grasp upon the multifarious lines of investigation in progress in the various bureaus and divisions. His optimism and real boyish enthusiasm are unbounded, but it is all underlain by an excellent substratum of Scotch conservatism. Certainly Mr. Wilson is the first secretary the United States Department of Agriculture has had who combines in so remarkable a degree these essential qualities.

IN THE CAROLINAS.

A night run from Washington on the Southern brings one to the dignified and venerable town of Raleigh, N. C., an educational centre and the seat of the State Legislature. Here we were welcomed with plum blossoms and opening peach buds.

Acquaintances were renewed with the teaching staff of the A. & M. College where Professor C. W. Burkett is building up a fine educational institution making for scientific farming and agricultural education in general.

Our next stop was at Greensboro, where the hospitable home of Mr. J. Van Lindley, near Greensboro, gave us hearty welcome. It is not difficult to find Mr. Van Lindley's establishment at Pamona, because in addition to his business as a nurseryman, he finds time to take part in many public movements in city and municipal affairs. Here we find Jap plums, peaches, hyacinths and daffodils, all abloom to give the Northener pleasant greeting. The Van Lindley establishment had practically completed their spring shipments; had set out a large quantity of grafts and were just waiting fair weather to attack the outdoor work in earnest. The snow of the north was rain in the south and of the soaking type too.

Near Greensboro, on the east, is located the nursery of John A. Young, who also welcomed the representative of THE NATIONAL NURSERYMAN, and drove him over his broad acres. Mr. Young's affections are somewhat divided between a fine herd of Jersey cows and his nursery interest, but the two are not at all antagonistic.

Southward again, our next point is Augusta, Ga., where we have a hearty invitation from the noted firm of P. J. Berckmans Co., nurserymen and pomologists, which will be realized very shortly, as we are now crossing the muddy waters of the Savannah, swollen by the heavy rains, and entering the suburbs of the city of Augusta, where peach trees in full bloom are seen on every hand.

ST. JOSEPH, MO., March 15, 1906.

THE NATIONAL NURSERYMAN PUB. CO., INC., Rochester, N. Y.

Find enclosed one dollar to pay you for one year in advance. I have bought the business and good will of The Kelsey Nurseries. Have been in Denver, Colo. with my brother A. M., a number of years doing business as The Northern Nursery Company. We will continue the business there as before, but I shall have charge of this business and I want to continue to read your paper.

THE KELSEY NURSERIES, C. G. Ferguson, Prop.

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CONDITION OF PEACH BUDS AFTER SEVERE FREEZE OF MARCH 20TH and 21ST.

ATLANTA, GA., March 22, 1906.

The air in this and other sections of Georgia is thick with flying rumors regarding the amount of injury the great peach crop of the State sustained by the recent frost. At Augusta on the night of the 20th of March, 28 degrees of frost were registered; the ground was frozen an inch or two in depth so that it actually hindered planting operations. Peaches in bud and blossom were stiff with frost in the morning. The sun shone brightly at seven o'clock and total destruction was expected; a cold wind continued throughout the morning, however, proved a saving clause, and the thawing out process was slow. In the afternoon an examination revealed injury varying from 10 to 60 per cent., depending upon varieties. Those which were open suffered most. This seems to reflect the condition throughout the State quite accurately.

In the more elevated sections where there was considerable atmospheric movement the injury is reported to vary from 20 to 30 per cent. On low ground it runs from 60 to 80, and in some cases complete loss. Certain it is that the peach crop of the State has been severly injured, but if conditions are favorable toward harvest time and the crop is not affected by Brown Rot, it is not beyond the range of possibility that a profitable peach crop may yet be harvested in many sections, notably, the Fort Valley and Marshallville regions.

JOHN CRAIG.

SHADING HIGHWAYS.

Messrs. Ellwanger & Barry of Rochester, N. Y., have received their annual order from the Massachusetts Highway Commission for 4,000 shade trees, to be planted along the highways of the Bay State. This is the third year that a like order has been received. The order calls for American elms, various kinds of maples, oaks and willows, all of which are hardy, and when once started will live for years with no other care than that given by Dame Nature.—*From the Country Gentleman, March 22, 1906.*

WHAT HAS BEEN DONE ON THE EASTERN SHORE WITH APPLES.

Frank M. Soper, of Magnolia, Del., has a farm of 107 acres on which there are 10,000 apple trees planted, from one to twenty years of age, of leading early and late varieties. The early varieties are—Early Ripe, Yellow Transparent, Fourth of July, Red Astrachan and William's Early Red. The leading late varieties planted are—Nero, Stayman's Wine Sap, Rome Beauty, Stark, Nickajack, Ben Davis, York Imperial, Lawyer, Paragon or (Mammoth Black Twig).

THE METHOD OF CULTIVATION IS AS PLAIN AS FARMING.

The method of tilling the trees is to plow the orchard as early in the spring as the weather will permit and the land is in a suitable condition, which is about the last of March or early in April.

COVER-CROPS.

Cover-crops are used, crimson clover and red clover, but not allowed to interfere with the early spring plowing, as, if left, the clover will injure the growth of trees, as it takes the moisture from the trees. At the time the tree needs the moisture it is being absorbed by the clovers, and only by thorough cultivation can moisture be retained. When cultivation is over in August clover should be sown again. The apple trees are headed low with from three to five branches with a leader. Heads are kept thin that there may be a fine circulation of air and permit the rays of the sun to strike the fruits. If the trees are thick your fruit will not be highly colored, as the fruits are hidden from the rays of the sun.

FOR BITTER ROT IN APPLES.

Bordeaux Mixture is used. Just before the buds begin to swell some varieties are sprayed six times.

FOR THE CODLING MOTH.

The trees are sprayed twice—once after the petals fall and once ten days later, before the caylix closes. These, too, are with the Bordeaux, to which is added the poison—some form of arsenic.

PICKING.

Picking is done when the fruits are fully matured and colored, except those of the very early varieties, which are picked when they are green, just as soon as they are fairly large. All fruit is hand picked : no shaking the trees.

PACKING.

The early apples are packed in bushel baskets, making two grades. The late apples are packed in barrels and boxes (The Washington box). Here is where honesty is the best policy. The fancy fruits are packed in boxes and the XXX and XX are packed in barrels. They are then placed in cold storage. The other grades are placed on the market immediately.

VARIETIES.

Any high colored variety properly grown as described, and properly packed will pay.

Mr. Soper, a Canadian by birth, came to Delaware with nothing and has demonstrated that apples can be grown to a profit on soil that was not considered apple land. His crop the past season netted him over $15,000. The quality of his fruit has been sampled by members of the Maryland Legislature, who will testify to same. Mr. Soper is a customer of J. G. Harrison & Sons, at Berlin, Md., who furnished the fruit trees and who take pride in looking after their customers, as they have the largest nursery in the East.

Mr. Orlando Harrison, Member of the House, had a box of the famous Stayman's Wine Sap apples sent Governor Warfield and other friends of his at Annapolis, Baltimore and Washington, and without exception they have been considered the finest apples brought to their attention this season. Apple growing is not only profitable, but a pleasure and a good business to engage in for the benefit of health and comfort.

EDITOR NATIONAL NURSERYMAN, Rochester, N. Y. March 16th, 1906.

We are in the midst of winter weather. Since the 13th, we have had snow every day, and not a plant can be moved from the fields, and shipping at a stand-still. We have not had as much winter in all the season together as we are now having. Good sleighing, and the merry bells jingling, are no reminder that Spring is here. The robin, who was out with his merry note has also withdrawn to more congenial surroundings. This will not last long, the wholesale trade is mostly out of the way, and stock for the retail work will put in its appearance with a rush.

We are of the opinion that peaches are not seriously hurt by the cold snap, as the weather previous was not warm enough to start buds to an extent, so but that they would stand the temperatures that we have had.

Everything else is in a good condition, and are anticipating a fair season.

Yours truly,

A. C. GRIESA,
Lawrence, Kans.

NATIONAL NURSERYMAN :

Since writing you regarding conditions on the Pacific Coast on March 9th, we have had a very great change in our weather.

On the morning of Saturday, March 10th, the weather was very warm and spring like, and everyone supposed spring was actually here. Towards noon it commenced to rain, turning colder, and by night snow was falling with a cold north wind blowing. By Sunday morning we had a heavy frost, temperature being about 28 above zero. This weather continued for a week with the temperature varying from freezing to eighteen above zero.

This extreme cold weather following an unusually warm spell will undoubtedly do some harm to the fruit crop on the Pacific coast, but to what extent it is hard to tell at this time.

Some of the earlier classes of trees such as peaches, almonds and Japanese plums had started to grow in the nurseries, but up to the present time we are unable to say whether there has been any material damage or not.

We do not think there will be any great damage to growing stock in the nurseries so far as we can learn from nurserymen throughout the Pacific coast country, neither has there been much nursery stock caught in transit to be injured by the frost, for while nurserymen had been doing considerable shipping, yet the temperature was not low enough west of the Cascade mountains to injure stock if carefully packed, and as near as we can find out, there was very little moving on the east side of the mountains.

This weather continued with us just one week, when it changed, and we are now having the usual Oregon weather, mild and rainy.

M. McDONALD.

Horse-Power Spramotor

FOR ORCHARDS, VINEYARDS AND ROW CROPS

Our Patent Automatic Regulator stops the machine at 125 lbs. pressure starting again at 100 lbs. pressure.

Automatic Nozzle Adjuster, insuring correct direction of spray.

Automatic Nozzle Protector, guaranteeing nozzles against clogging.

Everything under control of driver without stoping.

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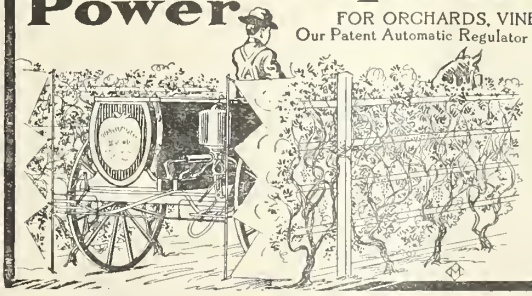
Agents wanted.



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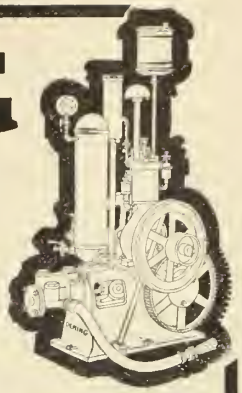
POWER SPRAYING OUTFIT.



A light, simple, practical gasoline engine outfit that sells at a reasonable price. Experienced fruit growers pronounce it by all odds the best power sprayer made. Entirely self-contained, ready for attaching hose, and easily mounted on wagon bed or tank wagon. Just the thing for the large operations of farmer, orchardist or park superintendent.

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York Imperial, Grimes' Golden, Ben Davis, Gano, 5-8 to 3-4, 2 year.

York Imperial Ben Davis, Gano, Jonathan, Yellow Transparent, 1-2 4 to 5 ft., 2 year.

Please write at once for prices. We can save you money.

GOOD STOCK — 35,000 MYRTLE — LOW PRICES

SOME SAMPLE VARIETIES.

Myrtle Vinca Minor, Madeira Vine Tubers,
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Sweet William, field-gr., Yucca, 1 and 2 year.
Wistaria, 1 year, fine blue, German Iris, named,
Hollyhoch, strong, double field roots.

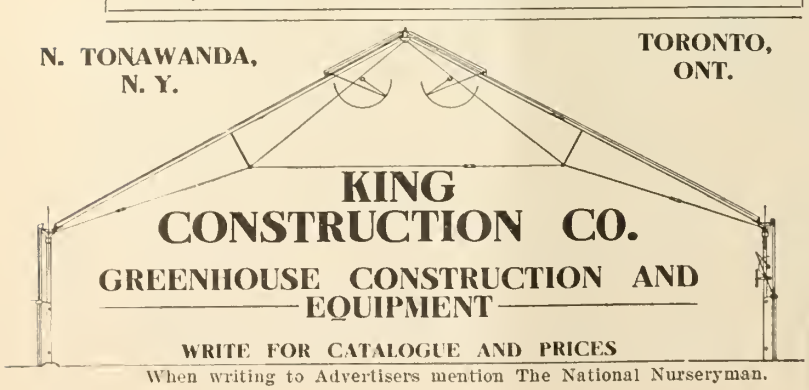
Samples of stock free. Send for free list of other stock.

S. J. GALLOWAY, Eaton, Ohio.

50,000 MADEIRA VINE

N. TONAWANDA, N. Y.

TORONTO, ONT.



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	25,000	Tennessee grown June Bud Peach, Elberta and Carmen. Spring delivery.
	150,000	1-year old Apple. For Fall 1906 and Spring 1907.
	200,000	2-year old Apple. For Fall 1906 and Spring 1907.
	250,000	1 year old Peach. For Fall 1906 and Spring 1907.
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If you are looking for Nursery Stock, write a Nurseryman for it. General assortment for

Spring of 1906

Two Year Apple, Early Richmond Cherry, Keiffer Pear, Shade Trees, Small Fruits, Peonies, Grape Vines and Roses. Write for price list.

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THE THEORY, DESIGN AND CONSTRUCTION of buildings and apparatus for the preservation of perishable products and nursery stock. This is the first work ever published in which the business of Cold Storage in all its varied applications to commercial and industrial life has been thoroughly and exhaustively treated.

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has been active and we have greatly reduced our stock, but can still furnish a large assortment of leading kinds of stock.

Some Items of Surplus

European Plum, two year, ¾ and up.
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Americana Plum of most grades.

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Altheas, Berberry, P. L. 2 to 3 feet.
Elder, Cut Lvd., Honeysuckle, White Tartarian.
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ORNAMENTAL TREES.

Maple, Silver Leaved and Weir's Cut Leaved.
Birch, Cut Leaved, Willow, Wis. Weeping.
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ROSES

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FOREST TREE SEEDLINGS

Ash, White Elm and Russian Mulberry, all sizes.
Honey Locust, 6 to 12 inches.
Black Locust and Catalpa, 2 to 3 feet.

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The largest and most complete in the state and one of the largest and best equipped in the country.

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PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

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NO JOB LOTS TO OFFER

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Own Root—Leading Varieties

SHRUBS, JAPANESE IRIS, PAEONIES

In Thousands or Car Lots

The United States Nursery Co.

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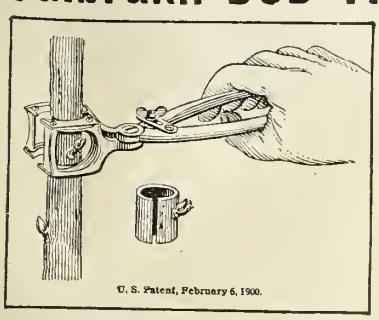

This device is simple, body aluminum, blades steel. Does perfect annular work on Pecans, Walnuts, Chestnuts, Japan Plums, Figs, etc. Send for circulars and prices.

Don't forget I am the general agent for some very valuable tools for nurserymen, among which is the

Thomas Tree Baler and Box Clamp,

Speer Grafting Machine, 4 C. Cultivator, Smoothing Harrow,
Best digging spade, etc. Send for circulars and prices to

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GROWERS AND EXPORTERS OF FRENCH NURSERY STOCK

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

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WHOLESALE GROWER OF

PEONIES

List of 100 varieties will be sent on request.

J. F. ROSENFIELD, West Point, Nebr.

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WE HAVE

FOR SPRING SHIPMENT, A COMPLETE LINE OF

FRUIT AND ORNAMENTAL TREES, SHRUBS, ROSES, HEDGE PLANTS, ETC., ETC.

SEND LIST OF WANTS FOR PRICES. SPRING TRADE-LIST MAILED ON APPLICATION.

PHOENIX NURSERY COMPANY,

P. O. BOX 625. ESTABLISHED 1852. BLOOMINGTON, ILLINOIS.

FOREMAN WANTED.

Practical working Foreman and Propagator, sober and industrious, young man preferred. One who thoroughly understands Perennials, to take full charge of Herbaceous Department. Position permanent. Best of references required. Address with full particulars, and state salary expected.

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Import Freight Agents Delaware, Lackawanna & Western Railroad Co.

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Foreign Express to all Parts of the World.

Cartage, Weighing and Storage attended to.

Drawbacks Collected on Exports.

Passports Secured.

IMPORTING: Do you import plants, bulbs, seeds, etc.? If so, we take this opportunity of presenting our House to you, both in New York and Chicago, for attending to your Custom House business and forwarding.

OCEAN FREIGHTS: We are the largest forwarders of plants, bulbs, seeds, etc., in the United States, and by reason of the vast quantity of goods we handle we are, at all times, able to secure the lowest rates of ocean freights and shipping charges. Rates on application.

FOREIGN AGENTS: We have agents in all of the principal ports in the world, through whom your goods could be shipped for consignment to us, and we would be pleased to give you their names and full shipping directions on application.

MARINE INSURANCE: We can attend to Marine Insurance on all shipments consigned to us by having an open Marine Insurance Policy, which covers goods from the time they are shipped abroad until they are delivered to the Importer's stores or Warehouse. We will be pleased to give rates on application.

FORWARDING: We are the Import Freight Agents of the Delaware, Lackawanna & Western Railroad Co., at New York, and ship over various other lines. We attend to forwarding of goods promptly on arrival of vessel. We can pay duties and freights at New York and charge forward on goods or forward in bond, where shipments are destined for an interior port where there is a Custom House.

CONSIGNMENT: We would suggest in order to avoid delays and extra expenses that you have your shipments consigned directly to us at New York City.

Correspondence on all subjects relating to Importing and exporting of merchandise solicited.

NURSERY BUSINESS FOR SALE.

A No. 1 location with good local trade. Farm, implements, and all can be bought at a reasonable price. Reason for selling given when writing particulars. Address,

K., care The National Nurseryman, Rochester, New York

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BALDWIN APPLE TREES, CONCORD GRAPE, 2 years,

VICTORIA and VERSAILLES CURRANT, 2 and 3 years,

RATHBUN BLACKBERRIES, Root Cutting Plants.

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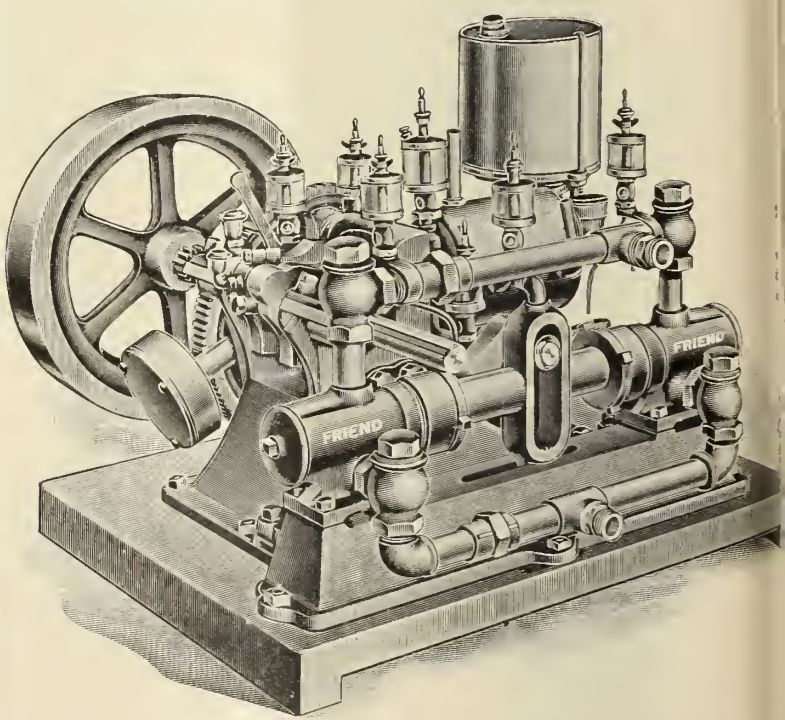
GASOLINE POWER SPRAYER

IN THE WORLD. WRITE FOR CATALOG.



The man who tells you that his pump is just as good as the "Friend" may be honest, but he does not know.

"FRIEND" MFG. CO., Gasport, N. Y., U. S. A.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

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ESTABLISHED 1868.

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(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

SURPLUS

APPLE, PEAR, PLUM, PEACH,

Catalpa, Silver Maple, Poplar,
Box Alder,

6-8 ft., 8-10 ft. and 10-12 ft.

Black Locust and Catalpa Speciosa Seedlings,

12-18, 18-24 and 24-36 inch.

We have in cellar a general line of nursery stock and will be pleased to quote prices on your list of wants.

J. K. HENBY & SON, Greenfield, Ind.

Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted. Can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.

FENCE *Strongest Made*

Made of **High Carbon** coiled wire. We have no **agents.** Sell direct to user at **factory prices on 30 days free trial.** We pay **all freight.** Catalog shows 37 styles and heights of farm and poultry fence. **It's free.** Buy direct. Write today

COILED SPRING FENCE CO.
Box 157 **WINCHESTER, INDIANA.**

Choice Nursery Stock

FOR SALE

15,000 APPLE TREES, 5-8 to 3-4, for sale cheap.
100,000 CALIFORNIA PRIVET, from 1 to 3 ft.
10,000 HYDRANGEA PANICULATA, both bush and tree form. Also a large stock of FOREST TREES, WHITE, AUSTRIAN AND SCOTCH PINE OF ALL SIZES. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

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ARE YOU LOOKING

for a thoroughly practicable, absolutely honest proposition in the way of a greenhouse? One that's a laster and equipped with all that's best in a half century of knowing how? If you don't want us to build your house, you certainly do want our kind of materials to build it with. 5 Millions of feet of cypress air drying 2 years before a stick is sold. All sap cut out before a stick is milled up, that's our reason for being sure you want our materials.

LORD & BURNHAM Co.
GREENHOUSE DESIGNERS and MANUFACTURERS,
1133 BROADWAY COR. 26TH ST., N. Y.
Boston Branch: 819 Tremont Bldg.

When we send you erecting plans, they are simple, understandable things and not complicated drafting room stunts.

BLACKBERRY ROOT CUTTING PLANTS

Largest and best stock in the country. Our Blackberry plants have the same mass of fibrous roots as our grape vines.

One year plants for late fall and spring shipment. Send lists of wants for lowest prices.

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A BARGAIN IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

COTTON BELT ROUTE

TEXAS

The Cotton Belt Route has a through direct line between St. Louis and Texas points—Dallas, Ft. Worth, Waco, etc. Through sleeper and chair car service. Vestibuled trains leave St. Louis morning and evening for Texas and the southwest.

Write for folder, map, etc.

E. W. La Beaume G. P. & T. A.
Cotton Belt, St. Louis, Mo.

When writing to Advertisers mention The National Nurseryman.

JUST ISSUED

Dundee Nurseries'

Large, complete and beautifully illustrated catalog of Evergreens. We grow all the hardy, leading varieties of these useful and ornamental trees. Our Evergreens are nursery grown, properly transplanted and root-pruned

We Are Evergreen Specialists

We can supply them in car-load lots or in any quantity to the trade. Special prices on 2 to 3 foot White Pine in car lots.

Catalog contains pictures of Seedlings, Transplanted Stock and Specimen Plants together with much information valuable to Nurserymen. Sent free.

D. HILL, *Dundee Nurseries,*
DUNDEE, ILL.

A Singular Service

If we simply told you that we have a "large stock," you would have no idea of its immensity nor might it move you to make our nurseries your market place. Let us go more into detail.

Our collection represents an assortment that includes nearly all the hardy ornamentals now grown commercially. It includes many trees and shrubs that cannot be bought elsewhere. As regards sizes; it contains stock suitable for lining out in nursery rows, to large transplanted specimens for immediate effect. We have nearly 300 acres under cultivation. No fruits nor tender plants.

Now, don't you think that a collection like this represents a good market place for you? In any business the question of quality being equal, don't you prefer to deal with the merchant who offers you the best assortment?

Write for new spring catalogue.

Thomas Meehan & Sons, Inc.,
WHOLESALE NURSERYMEN,
Box T, DRESHERTOWN, PENNA.

When writing to Advertisers mention The National Nurseryman.

FAIRMOUNT NURSERIES
TROY, OHIO.

OFFER FOR SPRING OF 1906:

Apple, Cherry, Pear, Peach, Plum and Quince.

SPECIAL PRICES ON GOOD SIZED ORDERS FOR

European and Japan Plum.

FULL LINE OF

Ornamental Trees, Shrubs and Evergreens.

FRUIT SEEDLINGS:

Apple—(Western Grown)
Pear—(French Grown)
Cherry—(Mahaleb)
Plum—(Myrabolan, Americana and Marianna.

FOREST SEEDLINGS:

Black Locust, Catalpa Speciosa and Osage Orange.

LET US HAVE YOUR WANT LIST.

The Geo. Peters Nursery Co.

When writing to Advertisers mention The National Nurseryman.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
60 CORTLANDT ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

NORTH CAROLINA
NATURAL PEACH PITS

Now ready for delivery. These seeds are in great demand and you should ORDER AT ONCE.

ADDRESS

JOHN A. YOUNG, *Greensboro, N. C.*

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING, 1906

One of the most complete lines of

Fruit, Shade and Ornamental Trees, Roses, Shrubs and Perennials

to be found South of the Ohio River.

Seedlings we have in large quantities, including Oaks, Gums, Chestnuts, Cypress, Tulips, Magnolias, Elms, Mulberries, Black Locust and Catalpa Speciosa.

WE ARE HEADQUARTERS FOR CATALPA SPECIOSA, AND BLACK LOCUST SEEDLINGS,

having grown in 1905 over Sixteen Million Seedlings of Locust and Catalpa alone by actual count.

Send us your list of wants to price.

Spring trade-list will be ready in February; send for it.

THE DONALDSON CO., Warsaw, Kentucky.

Hybrid Perpetuals, Hybrid Teas, Teas, etc.

Send Your Want List.

TO LINE OUT this spring, buy

ROSES

Grown cool in new houses. Free from all diseases.

Get Our Price List.

Baby and Other Ramblers, Climbers, etc.

On own roots.

THE LEEDLE FLORAL COMPANY SPRINGFIELD-OHIO.

2½ inch pots.

NORWAY SPRUCE All sizes, 15 inches to 5 feet.
SHRUBS, good assortment. Many sorts in large sizes.

W. B. COLE,
PAINESVILLE, OHIO,

F. E. SCHIFFERLI

FREDONIA, N. Y.

Grape Vines and Currants.

I offer for sale of 1906 an immense stock and complete assortment. A particularly fine stock of Extra Heavy two and three year vines for

NURSERYMEN'S RETAIL TRADE.

Also a light grade of vines for lining out in nursery rows. I guarantee careful grading and prompt shipment.

Grape and currant cuttings quoted upon receipt of amount and varieties wanted, which should be ordered early.

Correspond before placing your order.

TECUMSEH NURSERIES,

CEDARVILLE, OHIO.

We will quote special prices on Keiffer Pears and Japan Plums, 2-year old, in all grades, also on ⅝ to ¾ inch Cherry and other stock.

Write for prices. Address as above.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.

Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

WHEELOCK & CLARK,

FREDONIA, N. Y.

Grape Vines and Currant Plants

A SPECIALTY.

CORRESPONDENCE SOLICITED.

LOMBARDY POPLARS.

3, 4, 5, 6, 15 and 20 feet.

CAROLINA POPLARS, 10 and 14 feet, PEACH TREES, Small lot, 1st and 2nd, CAL. PRIVET most all sold, 1 and 2 yr., SHRUBBERY, variegated Leaf Althea, Forsythia, etc. Some good Hemlock Spruce can be moved with ball, 2, 3 and 5 feet.

JOSIAH A. ROBERTS, Malvern, Pa.

Wood Labels

OF EVERY DESCRIPTION, both plain and printed for Nurserymen and Florists

Prices and Samples Cheerfully Given.

Dayton Fruit Tree Label Co.

South Canal St., Dayton, Ohio.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.

Write direct to us, we have no agents.

WEATHER-PROOF

SHIPPING-TAGS

and

Paper Tree Labels

FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,

West Chester, Pa.

When writing to Advertisers mention The National Nurseryman.

Snow Hill Nurseries

OFFER FOR SPRING, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. **W. M. Peters' Sons** Telegraph Office: Western Union, Berlin, Md.

Post Office: SNOW HILL, MD.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes, $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent.

Louisville & Nashville R. R.

LOUISVILLE, KY.

THE NORWICH NURSERIES,

NORWICH, CONNECTICUT.

The season 1905 was its best, sales largest, losses smallest.

Not a KICK on Stock, Prices, Roots or Packing.

We sell everything that grows out doors. Let us estimate on your wants.

When writing to Advertisers mention The National Nurseryman.

In Surplus

Cherry, Peach, Pear, Plum, Apple Trees.

Apple, Elm, Mulberry,
Soft Maple, Catalpa Speceosa,
Seedlings and Osage Hedge.

Imported 3-5 m m Mahalebs and Myrobolans.

GOOD STOCK,
GOOD GRADES,
REASONABLE PRICES.

Write us,

L. R. Taylor & Sons,
Topeka, Kansas.

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company
R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

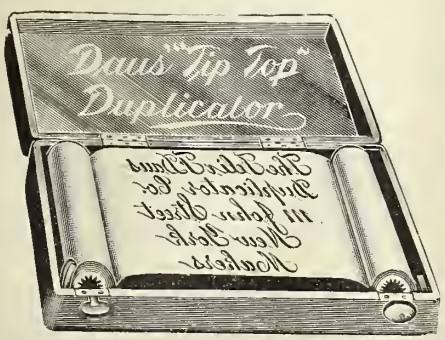
Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.



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TO PROVE that Daus' "Tip Top" Duplicator is the best, simplest, and cheapest device for making

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we are willing to send a complete "Duplicator" **without deposit on TEN DAYS trial** if you mention The National Nurseryman.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 year's experience in Duplicators. Price for complete apparatus, cap size (prints 8¾ in. by 13 in.,) $7.50, subject to the trade discount of 33⅓ per cent.—**$5.00 NET.**

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ELMIRE SEBIRE

Fils Aine, at USSY, Calvados, France

Grower and Shipper of NURSERY STOCK
ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.
Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

AUGUST RÖLKER & SONS, 31 Barclay Street, NEW YORK, - P. O. BOX, 752

Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*

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Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

Surplus Stock at Sacrifice.

On account of removal the following stock will be sold at very low prices in quantities to suit purchasers.

ORNAMENTAL TREES.

800	Birch Europ. White, 5 to 7 feet,	3	Sumuch Cut Leaved, 5 feet,
400	" " " 4 to 5 feet,	50	Magnolia Acuminata, 4 to 5 feet,
400	Poplar, Carolina, 8 to 10 feet,	100	" " 3 to 4 feet,
200	" " 6 to 8 feet,	300	" " 2 to 3 feet,
500	Russian Mulberry, 6 to 8 feet,	20	" Soulangeana, 2 to 3 feet.
500	" " 5 to 6 feet,		

CHERRIES, 1 year. $\frac{5}{8}$ to $\frac{3}{4}$ inch.

1000 Early Richmond, 500 Montmorency.

PLUMS ON PLUM, 1 year. $\frac{5}{8}$ to $\frac{3}{4}$ inch.

250 Abundance, 600 Burbank, 300 Red June, 45 Satsuma. 200 Wickson.

PLUMS ON PLUM, 2 year. $\frac{5}{8}$ to $\frac{3}{4}$ inch.

60 Abundance,	15 Gen. Hand,	5 Red June,
23 Burbank,	10 Imperial Gage,	45 Satsuma,
14 German Prune,	60 Lombard,	25 Shippers Pride,
3 Niagara,	19 Pond's Seedling,	70 Wickson.

Write for Terms and Prices.

H. E. HOOKER CO., Rochester, N. Y.

Peach Seed - - Peach Seed

We have still on hand a few hundred Bush Smock, Mixed, and Virginia Natural Peach Seed that must be sold and will sell at low prices and liberal discount for cash or on time to reliable parties. Write for samples and prices. . . . .

W. W. WITTMAN & CO.,

BOX 451. 117 Hanon Street, BALTIMORE, MD.

Partner Wanted

In the Nursery Business on a new principle. For full particulars, Address,

277 Jefferson Ave., Rochester, N. Y.

WABASH R. R.

offers unexcelled service to the

WEST

FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

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287 Main St., Buffalo, N. Y.

JAMES M. KENNEDY,

DANSVILLE, N. Y.

PLUM TREES AT YOUR OWN PRICE, NOW IN STORAGE.

Make me an offer on what you want.

PLUMS.

	5/8 to 3/4	1/2 to 5/8
Lombard, 2 yrs.,	500	300
Burbank, "	200	300
Bradshaw, "	300	200
Beauty of Naples,	100	150
Moore's Arctic,	75	100
Quackenbos,	100	—
Reine Claude,	—	25
Red June,	—	100
Shippers' Pride,	200	100
Smith's Orleans,	75	70
Washington,	70	75
Wickson,	—	125

ONE YEAR JAPANS AND KIEFFER PEARS.

The Fraser Nursery

JOHN FRASER, Prop.

HUNTSVILLE, ALABAMA.

OFFER FOR IMMEDIATE OR LATER SHIPMENT

All Grades of CHERRY, 2 years. PEAR, Standard, 1 and 2 years. PEACH and PLUM, 1 year. MULBERRY, 1 year. PECAN SEEDLINGS and GRAFTED. CALIFORNIA PRIVET, 1 and 2 years. DWARF BOX, 1 year. AMPELOPSIS VEITCHII, 1 and 2 years. CRIMSON RAMBLER, BALT. BELLE, QUEEN OF PRAIRIE and MAD. PLANTIER ROSES, own roots, 1 year.

WRITE FOR PRICE LIST

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

A well established retail Nursery business for sale. Proprietor intends retiring. Address,

NURSERYMAN,

KALAMAZOO, MICH.

Charles Detriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

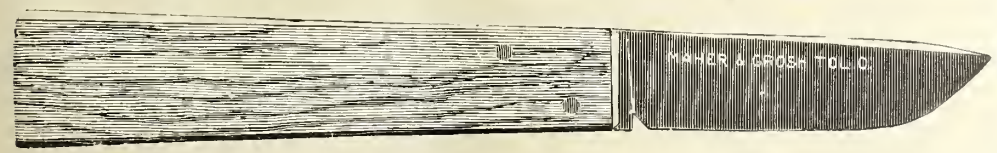
PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

WANTED — FOREMAN

Young man who understands the nursery business. Steady job for man of ability. State age, experience and wages expected. Address, **F,** *care National Nurseryman.*



Nurserymen's 'Nives

We have been selling direct to nurserymen since '77. Our blades are hand forged and warranted; if we can learn how to make them better they will be made that way. We mail goods all over the world. Twenty of our best customers are in Europe. The cut shows our Nursery Budder, sample by mail, 25c; 12 by mail, $2.25. Pocket Budder, 35c. Nursery Pruner, sample, 50c; six for $2.50. Grafting Knife, 25c; Forged Steel Pruning Shears, $1 00, postpaid. Nursery and Florist's Propagating Knife, white handle, 50c. A much inferior knife is sold for 75c. Send for 12-page nursery circular.

Prof. Kyle, of Texas Agricultural College, writes us: "I would say that I have tried a good many different kinds of budding knives, and like this one better than any."

MAHER & GROSH CO., 90 A STREET, TOLEDO, O.

When writing to Advertisers mention The National Nurseryman.

XENIA
STAR NURSERIES
XENIA, OHIO.

SPECIAL PRICES

will be made on the following stock in surplus on the issue of this number of the National Nurseryman.

APPLES.

	First-Class	Medium	No. 3
Akin	50	25	63
Ark. Black			40
Aut. Strawberry		130	68
Ben Davis	1000	270	789
Baldwin	1600	409	415
Bismarck			145
Chen'go Str'by	50		
Colvert	100	69	68
D. of Old'nberg			310
Fall Rambo		200	340
Flory Belleflower	100		
Grimes Golden			708
Gideon	119		10
Gano	1000	1010	1330
Greenville	100	265	
Holland Pippin			38
Haas	115		6
Jonathan			1545
Maiden's Blush	40		360
Mann		208	100
Mam. B. Twig	410		931
Minkler			96
Northern Spy		40	901
N. W. Greening	200	50	407
Pewaukee		30	120
Price's Sweet	500		
Red Astrachan			793
Summer Rambo			86
Sweet June	100	60	118
Stark	1200	530	320
Trenton Early	90	30	32
Tolman's Sweet	30	300	200
Van Eaton		64	90
White Pippin	50	100	140
Winesap	300	310	1655
Wagener			450
Wealthy		1100	870
Wolf River			476
Yel. Transparent	100		2000
York Imperial			1320
Gen. Grant	200	10	54
Hyslop			80
Transcendent	150		40
Van Wyck's Sw		81	92
Whitney's No. 20		13	75

PEARS.

	STANDARD				*DWARF.*		
	Extra	First-Class	Medium	No. 3	No. 3	No. 4
Beurre de Anjou			30	20		
Clapp's Favorite	90		322	900	208	204
Dch's D' Angl'me				160	1000	100	264
Flemish Beauty			693			
Garber	200	400				
Kieffer	1000					
Koonce		50		80		
L. Bonne de Jer		60	290	269	104	25	550	530
Vermont Beauty					24			
Wilder					120		235	73

	DWARF.		
	First-Class	No 3	No. 4
Koonce	589		20
L. Bonne de Jer	25	550	530

CHERRIES.

	First-Class	Medium	No. 3	No. 4
Black Tar			20	
Belle de Choicy		23	26	32
Dye House				650
Duke of Dayton		260	60	60
Early Richmond			105	2580
Eng. Morello				322
Empress Eugenie		20	75	60
Gov. Wood			260	
Ida		50	170	
L. Montmorency		1000	150	1900
Louis Philippe		280	220	243
Late Duke	400	10	37	125
Late Morello		85	206	136
May Duke			338	142
Napoleon Big				90
Olivet		166	262	115
Ostheim		20	245	335
Rockport	40		35	
Riene Hortense	10	70	25	15
Schmidt's Big	240	125	120	
Thirty Day		9	140	55
Vladimir	112		27	20
Wragg		10	260	235
Windsor		50	200	
Yellow Spanish			230	

PLUMS.

ON PLUM.

	First-Class	Medium	No. 3	No. 4
Arch Duke		20	58	
Arctic		50	270	
Bradshaw				
Coe's G'ld'n Drop		60	200	
Grand Duke			30	
Gueii		30	100	
General Hand				
German Prune				
Lombard		75	50	113
Monarch		10	35	
Pond's Seedling		30	90	
Riley's Damson			350	32
Richland				
Riene Claude		40	234	
Shippers Pride		20	300	
Shropshire			25	
Yel. Mag. Bon			117	
Abundance	400			
Burbank	100			
Hales	17			
Ogon				
Red June	450			
Wickson	100			

PLUMS ON PEACH.

	First-Class	Medium	No. 3	No. 4
Apple	238	80	19	
Bartlett	87		7	
Chalco	152		17	
Climax	4	4	27	12
Shiro	184		5	
Sultan	37		29	5
DeSoto	459		11	1
Forest Garden	238		6	2
Hawkeye	184		5	3
Marianna				
Stoddard	292	14	7	21
Wolf	710	58	44	
Wyant	317	133	81	
Riley's Damson		60	300	200

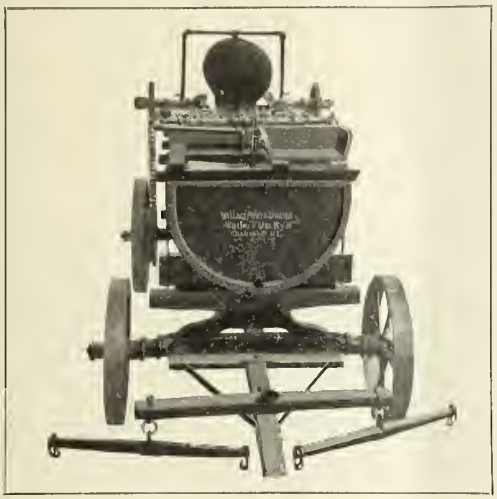
PEACHES.

	First-Class	Medium	No. 3
Admiral Dewey	100	60	
Amsden	100	15	
Alexander	100	50	
Bokara		22	12
Crawford's Early		120	275
Crawford's Late		40	100
Chinese Cling	100	35	
Engle's Mam		50	61
Early Barnard		120	135
Early Rivers		15	30
Early Canada		85	20
Foster	300	115	
Fitzgerald		78	60
Gold Mine	50		
Gold Drop		200	20
Hill's Chilli		150	20
Honest John	250	120	
Heath Cling	100		20
Jacques Rareripe		40	20
Kalamazoo		206	80
Lemon Cling	100		
Lewis Seedling		80	20
Mathews Beauty	100	50	
Mountain Rose	100	36	
New Prolific		205	90
Old Mixon Free	200		
Old Mixon Cling	200	50	
Steadly		40	
Schumacker		20	
Snow's Orange			100
Sneed	200		
Triumph	350	46	
Wheatland	400	10	
Yellow St. John		20	75

Also fine 12 inch and 2 inch Norway Maple, Silver and Ash Leaved and Weirs Maple, Weeping Mulberry, Lilacs, Erect Honeysuckles, Pruns Pissardi, Speria Van Haulii, Snowball, Syrenga, Balsam Fir, Irish Juniper.

McNARY & GAINES.

What Does Spraying Cost You?



Onley, Ill., August 26, 1904.

Wallace Machinery Co.,
Champaign, Ill.

Gentlemen:—We are pleased to inform you that in using your Power Sprayer this season in the mud we did good work. Two men with two double Vermorel nozzles put on large trees 1,800 gallons of spray material in nine and one-half hours. Yours truly,

JOHN F. JOLLY.

These men put out 2,000 gallons in ten hours in 1905 and drove back to the house to refill tank each time.

Manufacturers of compressed gas sprayers congratulate themselves when they can bring the cost for power down to about 7-10 of a cent per gallon of liquid handled. But why pay seven tenths of a cent or any other sum per gallon for power to spray?

Wallace Power Sprayers cost absolutely nothing for power

High, well-sustained power comes from gearing to wheels of wagon or cart which carries your spray mixture, and you put out from 1800 to 2000 gallons a day.

DO A LITTLE FIGURING

In a late experiment with compressed gas power at Cornell University, College of Agriculture, it was shown that the cost for gas per gallon of liquid sprayed was 7-10 of one cent. Cost for labor and team .785c. per gallon. Total, 1.485 cents per gallon. That would be $26.75 for spraying 1800 gallons.

The WALLACE POWER SPRAYER costs nothing for power and two men with team, at a cost of $4.50 will easily handle 1800 gallons of liquid for their day's work.

The saving is $22.23 on a single day's spraying. Is it not worth while? Send for catalogue and know all the facts.

Our Peerless Gasoline Engine Sprayers are ALL BRASS. No other machines such made. We are originators of Aluminum nozzles. Don't forget to write for the catalogue.

WALLACE MACHINERY CO.,
CHAMPAIGN, ILLS.

SPECIAL
ON 3-YEAR APPLE

To dispose of our Surplus 3-Year Apple in Ben Davis, Gano, Grimes Golden and Ingram, we offer above varieties at special low prices

26,000 BEN DAVIS, . . 3 yr.
8,000 GRIMES GOLDEN, 3 yr.
11,000 GANO, ... 3 yr.
6,000 INGRAM, ... 3 yr.
14,000 BEN DAVIS, . . 2 yr.

This stock is first-class in every respect. Smooth bodies, one-year heads. If any of above are required for your spring trade, write at once.

New Haven Nurseries
Box 325, New Haven, Mo.

When writing to Advertisers mention The National Nurseryman.

Apple, Cherry, Peach, Plum and Kieffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded None better.

Osage, Russian Mulberry and Soft Maple Seedling.

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

Shade Trees

Elm, Soft Maple, Box Elder, Weir's C. L. Maple.
GRAPE VINES, FLOWERING SHRUBS.
APPLE GRAFTS. All styles made to order.

PETERS & SKINNER
CAPITAL NURSERIES
NORTH TOPEKA, KANS.

When writing to Advertisers mention The National Nurseryman.

Evergreen

AND

Forest Tree Seedlings

ORNAMENTAL TREES,
SHRUBS, ETC., ETC.,
Wholesale and Retail.

R. Douglas' Sons,

Waukegan Nurseries,
WAUKEGAN, ILL.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

Established 1853

WEST CHESTER, PA.

offer for Spring the following surplus stock. Our Peaches are particularly fine this year and of our own growing.

PEACHES, 4 to 6 feet, $\frac{9}{16}$'s and up.

250 Alexander	200 Ey. Canada	260 Michigan Early
183 Bernard's Ey.	150 Ey. Rivers	375 Mary's Choice
300 Bronson	650 Everbearing	750 Morris White
125 Billyeu's Late	1000 Engle's Mam.	300 Holderbaum
2000 Butler's Late	10000 Fitzgerald	2000 Mt. Rose
1000 Belle of Ga.	2000 Foster	800 Moore's Fav.
4000 Chair's Choice	1500 Greensboro	637 Magnum Bonum
300 Chinese Cling	285 Geo. 4th.	1000 Reeves Fav.
190 Conkling	100 Hyne's Surprise	275 Sneed
600 Cooledges Fav.	200 Hale's Ey.	500 Stev. Rareripe
2000 Crawford Ey.	2000 Heath Cling	3000 Stump
4000 Champion	300 Hill's Chilli	600 Susquehanna
300 Christiana	1000 Klondike	300 Sallie Worrall
200 Carman	185 Lemon Cling	1000 Triumph
255 Delaware	185 Lord Palmerson	1000 Troth's Ey.
315 Druid Hill	300 Large Ey. York	180 Waddell

PLUMS, $\frac{3}{4}$'s and up.

1500 Abundance	800 Botan	300 Hale
100 Apple		

PLUMS, $\frac{5}{8}$ to $\frac{3}{4}$'s.

300 Abundance	200 Bailey's Jap.	250 Hale
200 Apple	150 Chabot	200 Oct. Purple
200 Burbank		

We have everything in the Ornamental and Shrub Line that is in demand. Write for what you need.

ESTABLISH YOUR NURSERY

OR A BRANCH

Of it in the South. All Southern Nurserymen are prosperous, none of them have ever failed, because they do an immense volume of business and get good profits. Our most successful Nurserymen have come to us from other sections.

Southern land owners, fruit raisers, truck-growers and florists have accumulated hundreds of thousands of dollars. They've saved it. They took it out of the fertile soil of the South, and they are going to replant these savings year after year, for a still larger and more profitable harvest.

In ten years Virginia, the Carolinas, Georgia, Florida and Alabama, will be recognized as the greatest fruit and vegetable sections in America. The Seaboard Air Line illustrated monthly Magazine gives the reasons; you should know them and we will put your name on our complimentary mailing list upon request.

If you want a new location write us.

Seaboard Air Line Railway

J. W. White, G. I. A., Portsmouth, Virginia.

KNOX NURSERIES.

WE OFFER FOR SPRING, 1906:

Cherry 2 yr. $\frac{3}{4}$ and up, $\frac{1}{2}$–$\frac{5}{8}$ and 2-3 ft. Cherry 1 yr. in limited numbers only. Catalpa Speciosa in three sizes. Very fine. These are in storage and can ship at any time. Senator Dunlap Strawberry plants direct from originator. We solicit your patronage and guarantee satisfaction.

H. M. SIMPSON AND SONS,
VINCENNES, INDIANA.

OUR NEW CATALOGUE

Quoting Prices for Fruit Tree Stocks:

300 Varieties of Conifers, 1 to 4 years old.
1200 " " Ornamental Trees and Shrubs, 1 to 3 years old.
1600 " " New and Old Ornamental Trees and Shrubs in all sizes.
250 " " Climbing Plants.
400 " " Conifers, 1 to 4 feet high.
400 " " Perennials.
800 " " New and Old Roses.

has been distributed and will be sent free on application.
Write direct to us. We have no agents.

Transon Bros'. and D. Dauvesse's Nurseries.

BARBIER & CO.,

16 ROUTE D'OLIVET. ORLEANS, FRANCE.

J. Horace McFarland Co.
Printers for Nurserymen

Mount Pleasant Press
Harrisburg, Pa.

THE READING NURSERIES, J. WOODWARD MANNING, PROPRIETOR, READING, MASS.

Wm C. Egan
Climbing
Rose
Finest of its class.
Large, white flowers in clusters; hardy.
Not too late to plant it if you'll hurry. Extra
fine stock, one dollar each, nine dollars for
ten plants. J. Woodward Manning.

This is a
Post Card on
the business side

Post Card

PLACE POSTAGE STAMP HERE

DOMESTIC AND CANADA ONE CENT

FOREIGN TWO CENTS

Mr. Ready Buyer
1906 Springtime
Anywhere

THIS SIDE FOR THE ADDRESS ONLY

Have You Too Much of a Good Thing?

OVER

IF there is a nurseryman who has yet available good retail items in his stock—an extra-nice fruit, or a sure-good ornamental—and if he has names of people who ought to buy these roses, hydrangeas, clematis, or what not, we can give him a big lift in a big hurry, with our Post-Card scheme. You can't safely try to work off in this way stuff you ought to burn, but *Mr. Manning is SELLING Egan roses* with it. And look at the price he gets!

The scheme depends upon two things: a good picture of the thing you have to sell, and a good, short selling offer, written right on the card, just as we did for Mr. Manning. By the peculiar printing process we use, this looks like a real written message, on a "regular" Post-Card of the better class. (Some of you may not know that America is using more than a billion picture Post-Cards each year!)

To get at the idea, write us quick, telling exactly what your specialty is, what price you want to sell it for, and how many names you can address. We will reply with a suggestion and a statement of the cost, if we have, among our 9,000 photographs, the right thing.

A little later you may care to work the same scheme *in advance* of actual need. If intelligently done, and you have good stock to offer, IT WILL PAY. If you get it as cheap and dirty as you can from the tag-end imitators, it will probably be worthless.

Write in a hurry, to get this thing going, if you are "on!"

J. HORACE McFARLAND COMPANY

Printers for Nurserymen

HARRISBURG, PENNSYLVANIA

A P. S. Whisper.—The only truly cheap time to get nursery catalogues printed is in May, June and July. We can afford to work cheaper in those three months, and we have time to give the best care. Do YOU care for a 10 per cent saving? Write!

OVER

Our Book Table.

"The Kentuckian," by JAMES BALL NAYLOR: C. W. Clark Publishing Co., Boston, Mass.

A good story for mental rest and relaxation for nurserymen in their leisure moments. A novel which will fascinate by the grace and charm with which it is written, by the natural and original characters that take part in it and by the interest in the plot.

When you once begin to read is you must go on to the end before you lay it down. It is full of rich and stirring pictures and on this glowing moving background of strife, victory and defeat there plays a love story charmingly simple, innocent and pure.

Those who admire strong, courageous men with a strength and daring in love as well as in other things, will find in Vance Chatam a brave yet tender character, loving untrammelled freedom, and one they will not soon forget.

The scene of the story is laid in Ohio in the sixties and leads up to the Civil War; it reaches a thrilling climax when Vance Chatam, a southern gentleman in sympathy with slavery, enters the war in defense of the Union.

THE SEASON IN MISSOURI.

We have had a favorable season for packing. Sales show an increase over previous spring. We are making our usual plants here, and in our several branch plants. The winter was favorable, and stock generally is in good condition. The prospect is favorable for a bountiful fruit crop. STARK BROS. NURSERIES & ORCHARDS CO.

Louisiana, Mo.

Nursery For Sale.

Can be bought very low, everything to go right in business. good retail trade, best grounds and location in Illinois, for handling dealers. Write for particulars, Geo. Wirt, Alpha, Ill.

1-YEAR-OLD 2½ IN. POTS. **ROSES** 2-YEAR-OLD 4 INCH POTS.

Baby and Crimson Rambler, Dor. Perkins, Lyonnaise, Ulrich Brunner, Laing, Alps, Diesbach, Masson, Wood, Lambelin, Caprice, Jacq., Dinsmore, and many others. On own roots.

Laing, Neyron, Wood, Alps, Lyonnaise, Diesbach, Neige, Lambelin, Caprice, Jubilee, Plantier, Dinsmore, Masson, Charta, Jacq., and others. Careful packing; true labels.

Leedle Company, EXPERT ROSE GROWERS, Springfield, O.

WEATHER-PROOF

SHIPPING-TAGS

and

Paper Tree Labels

FOR NURSERYMEN.

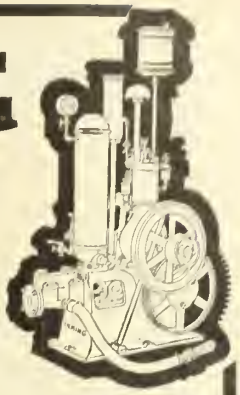
Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,

West Chester, Pa.

DEMING

POWER SPRAYING OUTFIT.



A light, simple, practical gasoline engine outfit that sells at a reasonable price. Experienced fruit growers pronounce it by all odds the best power sprayer made. Entirely self-contained, ready for attaching hose, and easily mounted on wagon bed or tank wagon. Just the thing for the large operations of farmer, orchardist or park superintendent.

SEND FOR FREE CATALOGUE

of all sprayers. **Barrel, Bucket, Knapsack, Hand, Field, Etc.** Our line of sprayers is known everywhere for their efficiency and nice adaptability to all uses. Be sure to investigate before you buy.

A Deming Outfit solves your spraying problems.

THE DEMING COMPANY,

325 Depot Street, SALEM, OHIO

HENION & HUBBELL, Western Agents, CHICAGO, ILL.

The Best and Quickest Service to

TEXAS and MEXICO

is via the

Iron Mountain Route

THROUGH PULLMAN CARS.
DINING CARS (Meals a la carte).

Trains Equipped with Electric Lights and Fans.

For Further Information Address,

WM. E. HOYT, G. E. P. Agt., 335 Broadway, New York.
H. C. TOWNSEND, G. P. & T. Agt., St. Louis, Mo.

W. FROMOW & SONS, THE NURSERIES,

WINDLESHAM, SURREY, ENGLAND.

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation, Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay Street, or P. O. Box 752.

Above, Birds-eye view of part of home plant.
Below, Indoor work; Closing up the season's graft of mulberries.
THE J. VAN LINDLEY NURSERIES, Pomona, N. C.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., MAY, 1906. No. 5.

PROMINENT SOUTHERN NURSERIES.

I.

THE J. VAN LINDLEY NURSERIES OF POMONA, N. C.

WRITTEN AND ILLUSTRATED BY THE SPECIAL CORRESPONDENT OF THE NATIONAL NURSERYMAN.

J. VAN LINDLEY.

The Lindleys are of old southern stock. They are horticulturists by tradition and heredity, as well as inclination, for one English branch of the family claims the eminent British horticulturist and botanist, John Lindley, whose influence upon the horticulture of England a century ago was powerful and stimulating, and who was the author of the "Theory of Horticulture," which in early days was a widely-used text book in the agricultural colleges of this country. The business now so ably directed by the J. Van Lindley Nursery Company, was virtually founded fifty-six years ago by Joshua Lindley, nurseryman and pomologist, father of the senior member of the present firm, whose full name is John Van Mons Lindley, after the celebrated Dutch horticulturist, Van Mons. The present nurseries, were, however, established in 1866, some ten years after the original founding by the senior member of the present firm, on the resumption of the business at the close of the war. Things were quiet in those days and it required considerable faith in the future of the country and a large stock of grit to bring about the establishment and continuance of a nursery enterprise under the prevailing economic and social conditions.

The faith and foresight of Mr. Lindley have been abundantly justified by the march of events. Pomona is a suburb of Greensboro and Greensboro has grown, in a generation, from a sleepy southern village to the proportions of a hustling business city full of growing enterprises and energetic men. The broad acres purchased cheaply in those early reconstruction days have been greatly enhanced in value by the development of the city, and now constitute a valuable property where formerly they were looked upon as a doubtful asset.

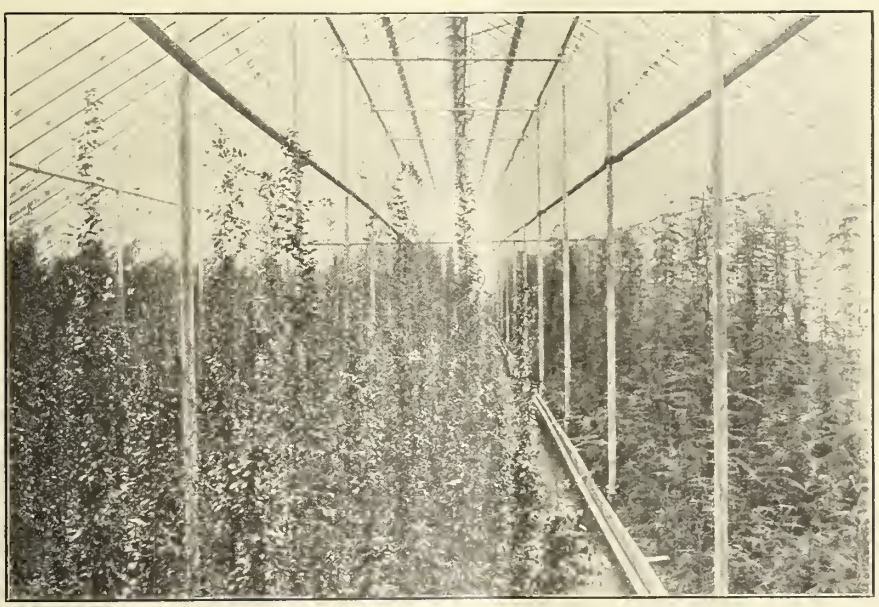
THE POMONA PLANT.

This comprises an area of 1,000 acres, of which 400 or more are in nursery stock. The soil is the best type of the southern red clay loam. Intelligent rotation and generous feeding have retained its productive power in marked degree, and the quality of growth is highly satisfactory for all nursery crops except those demanding strictly new land.

The Pomona grounds furnish the bulk of the ornamentals, the nuts, peach, mulberries, and the like, which are propagated on an extensive scale. Roses are cultivated extensively, and ornamentals generally are occupying, each year, more and more space.

EXTENSIVE CUT FLOWER TRADE.

The Pomona Nurseries maintain 35,000 feet of glass for the cut flower trade, in addition to the growing of nur-



Smilax and Asparagus greens for garnishing the cut flower designs, "plant drapery" for banquets, weddings, etc.

A block of one year old apples at the Kernersville addition.

sery trees. This branch of the business has grown up very rapidly in response to a definite and active demand. The climatic advantages of the situation, from the standpoint of the flower grower, are many. The cost of production is much less than farther north, and the quality of the product excellent. This part of the business is confined to the leading florist's crops. Carnations, roses, violets, smilax, and asparagus fern are prominent, of course.

THE KERNERSVILLE ADDITION.

This establishment, situated twelve miles from Pomona, has been acquired and developed to meet the soil needs of apple and pear stock. The older lands at Pomona have failed in recent years to produce the fine smooth stock and clean root system desired by this company, and they have gone out on this virgin soil in search of vigorous growth.

One of the striking differences between Kernersville and Pomona is the much greater elevation of the former place, which is about 1,500 feet above sea level. There are about 450 acres in the block of which over 100 acres have already been utilized for the planting of nursery stock. Fine blocks of one-year apple and pear were noted. The new soil, with its virgin fertility, is producing clean, healthy, vigorous trees.

SPECIALTIES AND SIDE LINES.

The tendency of the age, in the nursery business, as in other lines of work, is towards specialization. These nurseries are growing large quantities of Japan walnut (juglans sieboldiana). There is an active demand for this healthy, vigorous nut-bearing tree in the middle South. It is hardier, too, than is ordinarily supposed, as it will grow as far north as the 42d parallel of north latitude. Juglans cordiformis is also being propagated quite largely. The peach has always been a main and strong leading line with this nursery. Over half a million were budded last summer, and there is a fine stand of dormant buds at the present time. Japan plums are also propagated extensively. These are grown to suit varying requirements and varying soils on Japan peach and plum stock. The mulberry for the retail trade, is another line which has been a familiar and popular feature of this firm's stock for a number of years. 30,000 to 60,000 are grafted every year and large quantities of stock are grown.

PACKING AND SHIPPING FACILITIES.

It only remains to state that the location of the nursery gives it unusual advantages in the matter of digging and handling nursery stock. Whenever expensive storehouses and packing equipments are unneeded, the nurseryman has reason to be thankful. The mild winters of this region, while cold enough to check, harden and ripen wood properly, do not seriously interfere with the digging and handling of stock. The work can be done leisurely as circumstances permit.

The company is admirably located also in regard to shipping facilities. The home grounds are directly on the great Southern Railway, which not only passes through the town, but the very grounds, giving a flag station and postoffice, in addition to a private siding. A trolley line connects the place with Greensboro. This road also connects the home plant with the Kernersville addition in a convenient and efficient manner.

BUSINESS AND CIVIC ASSOCIATIONS.

Although the nursery business has primarily occupied the attention of the senior member of this firm for a number of years, it has not prevented him from taking a part in public affairs and promoting the business interests of the community in which he resides. A number of years ago, it was found that some of the soil on which the nursery plant was situated was well adapted for the making of tile. A small plant was established, which latterly has grown to imposing proportions, and now the Sewer Pipe Factory is doing an extensive and flourishing business. This is a separate corporation from the nursery business,

One of the Rose Houses, Mr. J. Van Lindley in foreground.

Mr. Lindley being president. Mr. Lindley also finds time to act as president of a Security, Life and Annuity Insurance Company, which is located in Greensboro, and which is doing a business of something over $3,000,000 per year.

The city of Greensboro will always hold the name of Lindley in pleasant remembrance, owing to the generous gift by this firm of a tract of twenty-five acres conveniently located and attractive in character, which was given to the city for park purposes, and is now being developed in a desirable manner. The park immediately adjoins the nurseries, is wooded in part, has a small lake and all the attributes of a popular summer breathing place.

We have, then, in this firm an active, aggressive business combination, and at the same time an institution which takes a stake in the material and aesthetic advancement of the community with which it is connected. The senior member of the firm is now being ably assisted by his son, Paul C. Lindley, Vice-president, a former student of Cornell University, and Mr. G. S. Boren, Secretary and Treasurer, a man of splendid business and executive ability. The company was incorporated in 1899.

Carnation House as the harvest season is closing.
J. Van Lindley Nursery Co.

View of part of a block of 1 year Apple Grafts taken, (when it was pouring rain.)

SPRAYING FOR SAN JOSÉ SCALE.

HOW TO PREPARE AND APPLY LIME AND SULPHUR.

One of those who have conducted a successful fight against the San José scale on orchard fruits, is Mr. Geo. W. Leitch, of Ridgewood, N. J. He attributes his success to his method of preparing the lime and sulphur, which in his own words, is made as follows: Mr. Leitch says, "I have nearly a thousand fruit trees on my farm, and for the past two years have held the scale in check by lime, sulphur and salt, cooked by the heat of the slacking lime, as described below."

To cook the lime, sulphur and salt mixture, for spraying against the San José scale by the heat of the slacking lime, get an unopened cask of the best wood-burned lime. If possible, get that just burned. Take out the head of an oil barrel. Have a hoe with a long handle to stir the mixture while it is slacking, and not get scalded with the hot steam. To make fifty gallons, take forty pounds of the lime, having sifted out the fine dust, as that is more or less air-slacked, break the large lumps to the size of a hen's egg. If the large lumps are slacked without being broken up, the heat goes off and does not come in contact with the sulphur. Rinse out the barrel with a pail of boiling water; this will warm it up and save so much heat. Take seventeen pounds of sulphur; rub the sulphur through a fine sieve to break up the lumps, and put it in the barrel. Put in ten pounds of lime and ten quarts *boiling* water; cover with old blankets and stir gently with the hoe. When this lime has slacked, put in ten more pounds of lime, and about ten quarts *boiling* water, and keep stirring and keep in the steam as well as you can. This second lot of lime will make the mixture boil violently. When the boiling has nearly ceased, put in ten more pounds of lime and if need be, some more boiling water and repeat the process with the last ten pounds of the lime, using as little water as will keep the mixture from getting dry. This will boil the sulphur nearly an hour, and will form sulphide of lime, and will be of a rich amber color. I have tried cooking with steam, and have not obtained as good results as with this method.

Now put in twelve pounds of salt, and stir; add twenty-five gallons hot water and stir, and strain through a *very fine sieve* into the spraying tank. Keep the agitator going, and do not let the mixture settle, and add more water in the barrel; stir, strain into the sprayer until the tank is full. Spray before it gets cold, and as soon as possible after the mixture is cooked, keeping the agitator going all the time, so as not to let the mixture settle. Have the pressure at 100 pounds or over. This will make the spray like a fine mist, and the same amount of material will go twice as far as when the pressure is light. Spray once when the wind is one direction and again when the wind is in an opposite direction. This will, if carefully done, cover every part of the tree. It is almost impossible to cover every part of a tree by spraying only once.

Trees should be sprayed before the buds start in the spring, and again in the fall, after the leaves fall. If this is faithfully done, you will have very little trouble with the San José scale.

FOREIGN LEGISLATION.

The United States Department of Commerce and Labor has been notified by Consul Keene, of Geneva, Switzerland, that the importation of American rooted plants, whether grafted or not, will be prohibited in the Province of Canton after April 1st, 1906. This action has principally in view the exclusion of the phylloxera, the arch-enemy of grape culture in Germany and Switzerland. Grape cuttings may hereafter be imported under inspection, but rooted plants will be excluded. There are over 4,000 acres of vineyard in the Province of Canton alone.

CONVENTION ANNOUNCEMENT.

PRELIMINARY PROGRAM

THE AMERICAN ASSOCIATION OF NURSERYMEN THIRTY-FIRST ANNUAL CONVENTION. AT DALLAS, TEXAS, JUNE 13th to 15th, 1906.

Special transportation rates are anticipated, and will be announced definitely in due time. (See page 159.)

It is suggested as desirable to have the Eastern contingent meet at St. Louis and be ready to leave in a body, Monday afternoon, June 11th, the Northwestern Contingent to meet at Kansas City same date, and all join at a proper place, and the consolidated train to arrive at Dallas Tuesday afternoon, June 12th. Details to be announced later.

The Oriental Hotel will be headquarters. Rates will be $2.50 per day and up, American plan. Members are advised to engage rooms in advance.

ONE SESSION EACH DAY.

One Session only a day will be held, from 9 a. m. to 1 p. m. The remainder of the time afternoons and evenings, to be given up to recreation and business. It is intended to arrange for excursions to the orchards and other places of note in the State. (See Secretary's announcement, page 170.)

BANQUET.

The Fruit Banquet is expected to be given, probably on Thursday night. The Exhibits are expected to be arranged near the Auditorium, where the Sessions are to be held.

ADDRESSES AND DISCUSSIONS.

All Meetings Held in Commercial Club.

WEDNESDAY, JUNE 13, 1906, 9 A. M.

Calling to order, by President E. Albertson, of Indiana.
Welcome to Texas, by Stanley H. Watson, 15 minutes.
Response by Judge Lynn, of Rochester, 20 minutes.
Welcome to Dallas, by Hon. John A. Ewton, President Hundred and Fifty Thousand Club, 20 minutes.
Response by Congressman N. W. Hale, of Tennessee, 20 minutes.
Welcome to the Orchards of Texas, by Roland Morrill, of Morrill, Texas, 20 minutes.
Response by J. H. Hale, of Connecticut, 20 minutes.
President's Annual Address, E. Albertson, of Indiana, 30 minutes.

REPORTS OF STANDING COMMITTEES.

On Transportation, 60 minutes.
On Tariff, 30 minutes.
On Legislation, 30 minutes.
Report of Secretary.
Report of Treasurer.
Selection of State Vice-presidents.

THURSDAY, JUNE 14, 1906, 9 A. M.

"Specific Requirements of New Varieties in California Fruit Growing," Prof. W. J. Wickson, Berkley, California, 40 minutes.

"The Importance and Best Methods of the Bud and Scion Supply in Propagating," C. C. Mayhew, Texas, 15 minutes.

"On Credits," Geo. S. Josselyn, New York city.

"The Best Stocks for Plums," Prof. T. V. Munson, Texas.

FRIDAY, JUNE 15, 1906, 9 A. M.

"An Uniform Standard of Grading Nursery Stock, and Its Universal Adoption," E. A. Chase, Alabama, 20 minutes.

"Ornamentals, Their Increasing Importance, Propagation, etc.," J. Wilkinson Elliott, Pittsburg, Pa., 20 minutes.

"Commercial Fertilizers, for Trees," W. F. Heikes, Alabama, 20 minutes.

"Storing Nursery Stock, Dampness, Temperature, Packing, etc.," 20 minutes.

Opening the Question Box.
Report of Committee on Exhibits.
Report of Committee on Resolutions.
Election of Officers. Selection of Next Place of Meeting.

Program Committee: Chairman, John S. Keer, Sherman, Texas; Herbert S. Chase, Huntsville, Alabama; C. J. Brown, Rochester, N. Y.

RAILWAY RATES TO DALLAS.

SOUTHWESTERN EXCURSION BUREAU RECOMMENDS ONE FARE PLUS TWO DOLLARS FOR ROUND TRIP.

"The investigation of the Chairman indicated that there would be at least 500 persons attending the meeting from all territories. After discussion, upon motion the following arrangements was individually announced by all lines present:

Rate: One regular standard fare plus $2.00 for the round trip from all points in the territory of the Southwestern Excursion Bureau to Dallas, Texas, and return.

Dates of Sale: June 11 and 12, 1906.

Final Return Limit: 21 days from date of sale.

Form of Ticket: Regular ironclad signature punch descriptive form ticket to be used requiring execution by Terminal Agent.

Connecting Lines: These rates and arrangements to be tendered connecting lines for basing purposes.

Respectfully,

J. E. HANNEGAN, *Chairman.*

Saint Louis, April 12, 1906.

RATES TO DALLAS.

PRES. ALBERTSON ACTIVE IN THE MATTER.

President Albertson writes to the NATIONAL NURSERYMAN under date of April 23rd as follows, regarding this important matter: "I met Mr. St. Bernardin in St. Louis Saturday, and we spent some time in conferring with the general passenger agents of the different railway lines running into Dallas. It seems there is nothing certain in the way of rates better than one fare plus $2.00 for the round trip from St. Louis and other gateways of the southwest district. It further appears that this rate will be used as a basing rate by the Central Passenger Association and affiliated associations in making through rates from Buffalo, Pittsburg and other points in the east, to Dallas. This gives us a little better rate than we have had heretofore when we have paid the regular one-and-one-third fare. Again our tickets will not be limited to less than 21 days, and they will be good for stop-over privileges going and coming. We also hope that arrangements will be made such as will permit parties going by one route to return by another.

The scheme that is now pretty well worked out is that a special train for nurserymen only will run out of St. Louis. This will be a limited train stopping only for meals, though it is probable that dining room car service will be provided. We hope to issue a bulletin to all members of the Association about the middle of May, giving complete information regarding the convention, railway facilities, excursions and entertainment provided."

Pres. Albertson further states that where a sufficient number of parties to charter a car somewhere in the east can get together, arrangements can be made to run this sleeper through without charge.

It is encouraging to hear from Pres. Albertson that the indications point to a large attendance, not only from the southwest, but even a larger attendance than usual from the east and north. The promise of an abundant fruit crop in the southwest adds to the interest of the trip. The fruit harvest will be in its height at the time of the convention.

MR. KIRKPATRICK ON HOTELS AND ATTRACTIONS.

In June next, the Nurserymen will assemble in Texas. The Oriental Hotel at Dallas will be headquarters.

This, the most famous house in the Southwest, has 200 rooms well appointed, best service, American plan, rooms $3.00 per day, with baths $4 to $5, special rates to members of convention, with usual reduction where two or more occupy one room. Private and committee rooms will be furnished free.

Street cars concentrate near.

Imperial Hotel, 100 rooms, European plan, $1.00, 75c. for two. Baths $1.50 and $2.00.

St. George Hotel, 200 rooms, European plan, $1.00 each. Baths $1.50 and $2.00. Convenient to assembly hall.

The Majestic Hotel, 200 rooms, modern equipment, most pleasing and quiet location.

The Windsor, Arlington and many other hotels will open their doors to visiting nurserymen.

The hotels named will respectreservations made by wire or letter if received 24 hours in advance of the opening of meeting. Communicate direct with hotel.

Dallas is famous for efficient café service, and the Dallas ladies constantly serve most excellent lunch on co-operative plan at nominal cost.

Dallas is the Southwestern basing point for railroad passenger service, therefore trains arrive and depart at most convenient hours.

The products of Southern Orchards and Gardens in their rare and beautiful forms will be on display. Come down and accept southern hospitality in a model southern city and see this favored section of our great American Empire. This peerless land of joy under heaven's brightest skies, is yours to see, admire and enjoy with us.

E. W. KIRKPATRICK.

D. T. McCARTHY & SONS VS. H. S. TAYLOR NURSERY COMPANY, ROCHESTER.

VERDICT FOR DEFENDANTS.

This is one of the peculiar cases arising under our present business incorporation law. Two Taylor brothers had for years conducted a nursery at or near Rochester under the name and style of H. S. Taylor & Co. In 1893 they with one J. Frank Norris organized a corporation by name The H. S. Taylor Nursery Company. It was undisputed that one of the Taylors came to the plaintiffs and bought trees, stating that Norris was a member of the concern, but signing the contract H. S. Taylor & Co. The plaintiffs claimed that they supposed that the name was still H. S. Taylor & Co. with Norris an addition to the company. Failing to get their pay they looked up the matter and found that Norris was not a member of the firm but was a member of the corporation. They therefore sued the corporation, and it defended on the ground that the sale was made to the brothers Taylor as a firm and not to the incorporated company. The Taylor Brothers owned all of the interest in the company or co-partnership and sixty per cent. of the incorporation. The court upheld the contention that the action had been brought against the wrong concern.—*Lockport Journal.*

Oriental Hotel, Dallas, Texas.

DALLAS, TEXAS.

By STANLEY H. WATSON.

Street Scene in Dallas.

Dallas, Texas, is decidedly a modern city. St. Louis, Chicago, nor any of the cities in the Middle West cannot offer anything which Dallas has not. Ninety thousand hustling, energetic people, all working shoulder to shoulder to add 60,000 to their population, cannot fail to make a town good. The end of each month registers an increased population, and the avowed intention of the "150,000 Club" to make that number represent the population of Dallas, bids fair to be realized. Dallas is a good town, first, because its people are alive, and straining every nerve to make the town better. Second, because the climate is almost ideal, the winters mild and the summers pleasant. Third, because it is the center of one of the biggest, richest, prairies in the world. Hundreds of country towns and villages within a radius of 150 miles, do their wholesale business in Dallas. In the sale of implements, farm machinery and vehicles, Dallas stands first of all the cities of the world. In the sale of cotton gin machinery, saddlery and harness, Dallas also leads the world. It is a jobbing center for a territory rich and prosperous, and the money so brought into Dallas is not allowed to rust, but is kept busy in making the town better.

Dallas has 84 passenger trains a day, 70 miles of electric street railway and an interurban line reaching for 35 miles over to Ft. Worth, passing through a number of thriving villages.

In their enthusiasm to build a town of substantial prosperity, the people of Dallas have realized that life was not intended to be taken seriously all the time, and they have provided numerous places of amusement; a half dozen parks with beautiful flowers and shady drives, limpid lakes and lovers' nooks, five theatres, and miles of shady lanes, provide somewhere to go and something to do the whole year around. Fifty-nine schools and colleges, and 97 churches provide ample facilities for learning the route here and hereafter.

Dallas has a number of hotels, most of them good. The city of Dallas is well worth making a trip to see; the fact of its being located in the imperial State of Texas entitles it to a world of respect, but the fact that it is the next place of meeting of the American Association of Nurserymen, makes it prominent in the minds of the nursery trade at this time, and no one should fail to attend the meeting, which promises to eclipse all previous meetings of the Association.

"Where the bass lie in the cool shadows." (The fishermen lie' when they get home.)

A quiet corner in the park—Dallas.

Correspondence.

SUGGESTIONS TO THE PROGRAM COMMITTEE.

EDITOR NATIONAL NURSERYMAN:

In the last number of THE NATIONAL NURSERYMAN I saw some interesting remarks in reference to the making of a program for the annual convention. I think the combined suggestions cover pretty much the whole field, and most of them, you will see, are noted in the last Committee's Report.

To have a most successful meeting, there should be only one session per day, unless a special session in the evening or afternoon was called for by the Convention itself, if some particularly interesting matter comes up. Then this would leave the afternoons and evenings for social enjoyment and business interests, and it is probable that a full attendance would be had for the single daily session.

Again, papers should be limited in length, and no papers read where the author was not present. Some of the best things, however, have been given us by those who could not attend, and these papers should, of course, be included in the report of the meeting.

The nurserymen have been particularly weak in their exhibits, and a much more interesting convention could be held if a special feature was made of exhibits, such as trees, shrubs and plants and all kinds of nurserymen's supplies.

HARLAN P. KELSEY.

Salem, Mass.

UNIFORMITY IN BUILDING CATALOGUES.

EDITOR NATIONAL NURSERYMAN:

Would it not be well for nurserymen to consider the advisability of settling upon a uniform order in the arrangement of departments in their catalogues? Might not this be considered at the Dallas convention?

If you will look over the wholesale catalogues, you will find a tremendous difference in the relative positions of the different departments. Of course, the nurserymen who handle fruits principally, place them in the front and more prominent position of the price list. In the same way, we nurserymen who make ornamentals our strong point, push them to the front, and grade the other departments to follow.

If you will take up a half dozen of the leading wholesale lists and look for the same article, you will find that you will have to search from one end to the other. There is no certainty as to just where this stock will be located. Do you think that it would be practical to suggest uniformity in the arrangement of the departments?

J. H. HUMPHREYS.

Chestnut Hill, Pa.

CO-OPERATIVE INSURANCE.

EDITOR NATIONAL NURSERYMAN:

We have always felt that The American Association should devise some plan for the insurance of nursery storage houses. The rate charged by the regular insurance companies is extortionate, and we certainly think that some plan can be devised whereby the nurserymen can carry their own insurance and get it for cost, which would certainly be low.

We are aware that this insurance business was discussed a number of years ago, but seemed to drop by common consent; still we believe it is the right principle.

STARK BROS. NURSERIES & ORCHARDS CO.

Louisiana, Mo.

PEDIGREED PLANTS.

EDITOR NATIONAL NURSERYMAN:

In April issue the editor very wisely comments on the misapprehension that exists as to what is really meant when the term "pedigreed" is used in the plant world. Professor S. W. Fletcher, of Michigan, believes thoroughly in the idea of pedigreed plants or trees, just as much as in pedigreed cattle, but he does not like the term. The claim is, and it is a reasonable one, that a "pedigreed" plant may mean nothing more than a "selected" one, or, more properly, one improved by "selection."

If, however, "pedigreed," as applied to plants, be a misnomer, "selected" is absolutely meaningless, is it not? Every nurseryman, it goes without saying, has selected stock, just as every fruit grower has choice fruit. So does every nurseryman make prices on "his own selection,' and on the "customer's selection." For a nurseryman to follow faithfully the law of "selection," and to watch carefully for "bud variation," and then to say he grew "selected stock," would convey no idea whatever of the work he was doing. It would seem to me that any plant propagated from a bud of an individual, that is known to possess all the peculiar varietal characteristics attributed to it, both as to vigor and productiveness of plant, and quality and markings of fruit, or as to shading and size of flower, in perpetuating this fixed type, is a "pedigreed" plant in the fullest acceptation of the term. [A pedigree implies a known parentage, which in turn implies sexual reproduction. The selection of a favorable variation does not furnish a pedigree.—Ed.]

Professor L. H. Bailey is a well-known exponent of the advantages to the public generally when bud variation and "selection" form part of the ethics of plant culture. As he said in a Bulletin from Cornell: "We know that no two trees in any orchard are alike, either in the amount of fruit which they bear or in their vigor and habit of growth. * * * The indiscriminate cutting of scions is too clumsy and inexact a practice in these days," etc.

That some may use the term "pedigreed" without any special care as to "selection" or "bud variation," is true enough, but that cannot be prevented in any case.

LEONARD COATES.

Morgan Hill, Cal.

A GOOD SEASON.

"Business this year the largest in the history of the firm," say Thos. Meehan & Sons, Inc., Dreshertown, Pa.

The National Nurseryman

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The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Address Editor, Ithaca, N. Y.

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Rochester, N. Y., May, 1906.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, E. Albertson, Bridgeport, Ind.; vice-president, Orlando Harrison, Berlin, Md.; secretary, Geo. C. Seager, Rochester, N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

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Programme—John S. Kerr, Sherman, Tex.; H. S. Chase, Huntsville, Ala.; C. J. Brown, Rochester, N. Y.

Publicity—Ralph T. Olcott, Rochester, N. Y.; John C. Chase, Derry, N. H.; Stanley H. Watson, Houston, Tex.

Exhibits—J. H. Skinner, Topeka, Kas.; J. C. Hale, Winchester, Tenn.; C. C. Mayhew, Sherman, Tex.

Editing Report—J. Horace McFarland, Harrisburg, Pa.; J. C. Maloy, Rochester, N. Y.; George C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

American Nurserymen's Protective Association—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

Nurserymen's Mutual Protective Association—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

American Retail Nurserymen's Protective Association—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

Eastern Association of Nurserymen—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

Western Association of Wholesale Nurserymen—President, Peter Youngers, Geneva, Nebraska; vice-president, A. Willis, Ottawa, Kansas; secretary, F. J. Holman, Leavenworth, Kansas.

Southern Nurserymen's Association—President, Orlando Harrison, Berlin, Md.; vice-president, John A. Young, Greensboro, N. C.; secretary-treasurer, Chas. T. Smith, Concord, Ga. Meets at Chattanooga, Tenn., third Wednesday in August, 1906.

Southwestern Nurserymen's Association—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

Texas Nurserymen's Association—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

Pacific Coast Association of Nurserymen—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

Pennsylvania Nurserymen's Association—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

National Association of Retail Nurserymen—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

DALLAS FOR ME!

Plans for the great convention of 1906, at Dallas, are now well crystallized. The program has been blocked out; the side trips planned; the railroad rates fixed. The South and Southwest are developing with great rapidity. The natural resources are great, the promise of the future is rich and inviting. The convention itself will be worth the trip, but when added to the general educational opportunity, the chance may be one of a lifetime. Make arrangements to join the procession.

THE SOUTH AFRICAN FIELD.

Canadian fruit growers have been investigating the field for northern apples in Cape Colony, South Africa. Recently, however, some consignments have been condemned by the official entomologist, on the score of being infested with scab and codling moth. It appears that thus far these insects are unknown in the region, and naturally enough the prospective fruit growers are not anxious to welcome them. Canadian shippers are warned that their apples may be permanently excluded unless greater care is taken in grading and selecting.

HARDY CATALPA.

This tree is dividing public attention with white pine. Foresters are inclined more and more to exploit it as a valuable timber product. Large plantings are being made in the Middle West, and the profits from crops which were planted a number of years ago, and are now being harvested, are stimulating additional plantings. The durability of the tree is not generally appreciated, but railroad engineers are well aware of its valuable properties. Some of the railroads of the Southwest and Middle West are growing ties by planting this tree and cultivating it. Those interested in forestry planting, the country over, are speaking in strong terms of the value of this tree.

EXPERIMENTAL WORK IN OREGON.

The Oregon State Horticultural Society, assisted by progressive nurserymen like Mr. M. MacDonald, of the Oregon Nursery Co. and others, are fully alive to the benefits of experimental work. At the recent meeting of the state society a resolution was passed which was strongly backed by Mr. MacDonald, asking the experiment station to secure the appointment of a horticulturist to study the interests of the fruit grower. Although the fruit interests of the State are very important and constantly growing, they have not received that attention at the hands of the experiment station that their importance deserves. A station horticulturist was appointed early in April. In making this appointment a man has been secured whose sympathies and experience will enable him to work hand in hand with the great and growing nursery industry of the State. The position has been accepted by Mr. C. I. Lewis, of the Graduate Department of Cornell University.

There is accumulating, year after year, legal evidence and precedents which will do much to settle moot ques-

tions in regard to the rights of telephone and other public service companies in regard to destroying or mutilating trees in the establishment of their lines. A Kansas City circuit court judge has recently awarded a complainant against the Home Telephone Company $200 for the mutilation of a poplar shade tree. The amount sued for was $300. After the top had been cut out by the telephone company, the tree died. Another case is one which occurred in Asheville, N. C., where a supreme court judgment was secured against the local electric company for injuring a tree on the sidewalk, although the company had secured permission from the street superintendent, which permission was approved by the board of aldermen. The court ruled that the city had power to control streets and sidewalks, but that it did not own trees on land which had been previously condemned for highway purposes. The whole matter is one of individual interest. Let some one protest, and the nuisance is abated.

TELEPHONE COMPANIES AND STREET TREES.

The primary essentials of landscape garden work are to constitute a course of study to be offered by the Gardeners' and Florists' Club, of Boston, this season. This is a praiseworthy venture, but gardeners should remember that landscape work, in the highest sense, is a fine art, and is very different from the mere laying out and planting of restricted areas of ground. The essentials and qualities of a good landscape are not in the same category with the requisites of a backyard or a small dooryard lawn. While instruction of this kind is most desirable, gardeners should realize that a brief course of that type will not make them landscape gardeners. It is valuable from the standpoint of making them more familiar with plant materials, but the study of landscape gardening can only be conducted by a study of the theory of design in its broadest sense.

BOSTON GARDENERS.

A bill has passed the House and Senate which appropriates $15,000 annually for the additional support of the agricultural experiment stations. This measure is known as the Adams bill. Mr. Adams is from Wisconsin, and has been warmly interested in securing additional support for the experiment stations for some time past. The entire sum of $15,000 will not be immediately available. The idea is to add to the appropriations of the stations each year until that amount has been reached. Instead of then coming into a large legacy at one time which the stations might find some difficulty in spending advantageously within the fiscal year, they will expand gradually and normally, instead of running the risk of spending money for the sake of using it up within a given period. Whether any part of the appropriation will be available the present fiscal year, which closes July 1st, is a question which the Comptroller of the Treasury is now pondering.

MORE FEDERAL SUPPORT FOR THE STATE EXPERIMENT STATIONS.

The progress of agricultural education has been slow, but the rate of growth is becoming each year more accelerated. A record of the progress of each month now makes an extended statement. At a late meeting of the Michigan State Teachers' Association, the following resolution was unanimously adopted:

AGRICULTURE AND THE COMMON SCHOOLS.

"This association heartily favors the incorporation of elementary agriculture in the common school curriculum as rapidly as possible, and in so far as limiting conditions may permit. This association believes that this is an available means to the end of interesting the rising generation in the natural, mechanical, scientific and social inheritance of the greatest industry; and that by this means an increasing number of the brightest children will come to see in agriculture an attractive field for the satisfaction of life's ambitions. The possibilities of agriculture as an industry from which the educational process itself may be enriched, are also recognized."

This resolution is in line with the sentiment which is prevailing in many states, and which is finding expression in various ways. Not only is agriculture being put into the common schools, but agricultural high schools are being established; special schools for the study of particular branches of agriculture are being organized. While a great deal of activity is in evidence in this country, the older European countries and British empire are keeping up the pace. We read of a professional dairy school being established in France last December, of a poultry school, and of a general school of agriculture. In Germany, the agricultural high school of Berlin enrolled 893 students in 1904, and the agricultural academy at Bonn, 501, and at the University of Breslau 140 students were engaged in the study of agriculture.

It is said that this is an age of specialization. Yet in certain commercial fields it does not seem to hold true; for are not the great departmental houses controlling the retail trade of the large cities? While some persons make a good deal of money out of a specialty, yet in the nursery business it is true that larger profits are made by those who carry big stocks of standard varieties. Nurserymen of this character are comparable to the departmental houses. This type of business demands men with keen commercial instincts. They are the men who have and can build up large enterprises. The nursery business is not unlike any other commercial undertaking. The more complete a line of goods a firm can offer, the more nearly it resembles the great departmental store, and the larger its volume of trade, and presumably, its profits, the latter depending, however, upon the type of business management prevailing. This is the trend of the times, at any rate. The day of the small cross-road nursery is over, just as the day of the small general store in our large towns is over.

SPECIALIZATION IN STOCK GROWING.

Accepting these statements as representative facts, we are, nevertheless, disposed to wonder if there are not

openings for certain nursery specialties at the present time. For example, in the East we need better stocks for certain high-class varieties of apples; for King, which is so badly affected with collar-rot; for Spitzenberg which is such a weak grower; for Twenty-Ounce, so susceptible to body scald. Why cannot some enterprising firm double-work these varieties, and offer to the planter of the East a more reliable stock for orchard purposes than he is now able to secure. Let them be offered for an adequate consideration. We feel sure that a reasonable demand already exists, and that this demand should be materially increased.

In the northwestern states, trees root-kill with remarkable facility. French crab and stocks from New England apple seed go out with every returning test winter. Hardy stocks are being introduced. Among these is the berry crab, P. baccata, which gives promise of great value for the Dakotas, Minnesota, and the colder parts of Montana. These have been tested in an experimental way, to the end that they form a promising field for nurserymen to enter. It seems to us that the first man to prove that he has a reliable stock for apples in the northwest, and the first man to provide himself with a quantity of trees which will bear seed from which to grow his stocks, will be placed in an enviable position. There are, undoubtedly, other specialties, but these two appeal to us just now as being of more decided promise than most others.

RECLAMATION OF IMPORTANT NURSERY LANDS IN THE DANSVILLE REGION.

There is a strong probability that a large tract of rich bottom land in the Dansville district, Livingston County, admirably adapted for nursery purposes, but at the present time subject to overflow by the Canaseraga Creek, will be reclaimed and made available for nursery purposes in the near future. Mr. John B. Morey, of Morey & Son, Dansville, has been one of a delegation of some twenty men from Livingston County, who appeared before the River and Harbor Drainage Commission, of New York, on final hearing to act upon a petition of property owners, asking the State to provide ways and means for the straightening of this creek, which runs from Dansville to Mount Morris. The commission decided that the improvement should be made. The straightening of this creek will bring into cultivation about 8,000 acres of land, which in a very short time will be producing the high grade brand of nursery stock for which Dansville is famous, and which will add materially to the output of that great nursery center.

New York has many areas like this, which are destined to be reclaimed by draining and dyking. As land values increase, more attention will be paid to these reserves.

INTERNATIONAL INSTITUTE OF AGRICULTURE.

The Italian government is interesting itself in an international institute of agriculture to be held in Rome some time next year. Already twenty-six nations have agreed to send delegates. Just what the scope and purpose of the institute is has not been clearly outlined as yet.

Note and Comment.

The Kansas City Southern Railway Company have announced that when the season opens they will put on a special strawberry train on the Ozark Line running between Siloam Springs and Kansas City daily. It will leave in the morning and arrive in Kansas City early the following morning.

Strawberries began to move north and east from Tyler, Texas, about the middle of April. The fruit conditions in that region are fairly promising.

CALIFORNIA WINE MEN WANT LAW CHANGED.

Under the regulations of the Internal Revenue Bureau, brandy, used for fortifying purposes, cannot be held in the distillery, but must be removed to the fortifying room. When this is done the distiller loses his insurance in case of fire. The distillers are pressing Congress for relief from this tax liability. A delegation of California wine manufacturers called upon Secretary Shaw in January and entered a protest against the proposition which imposes a tax of twenty-five cents per gallon on brandy used in the fortification of sweet wine. Californians are of the opinion that if the tax did not wipe out the sweet wine industry of California, it would badly cripple it.

It is reported that the shipment of Chinese lily bulbs has far exceeded that of any previous season. Consignments of fifty tons or more are not unusual upon a single steamer.

W. Atlee Burpee is in favor of the metric system, and believes that its introduction would do much to facilitate the business of the seedsman.

EXAMINATION OF ADULTERATED SEEDS BY THE DEPARTMENT OF AGRICULTURE.

The work of the Bureau of Plant Industry in collecting and examining samples of seed offered by various seedsmen through the country under authority of Congressional statute has been criticised by some of the seedsmen in the country. Professor Galloway has asked the attorney general of the United States to give an opinion regarding the validity and scope of the statute. Mr. Moody has replied that the examination has been within the meaning and purpose of the law, and that there is no constitutional objection to the carrying out of the mandate and the letter of the law.

We are glad to note that our co-worker, Orlando Harrison, who has recently been elected to the Maryland legislature, is making his presence felt in that body, and is working for the advancement of the horticultural interests of the State. He has recently presented a bill asking for an increase of appropriation from $1,000 to $3,000 in behalf of the state horticultural society. The bill bids fair to pass.

The next annual meeting of the American Carnation Society will be held in Toronto, Ont., in January, 1907.

Among the Growers.

Michigan fruit growers are active in the organization of mutually helpful associations. Kalamazoo vegetable growers recently organized an association under the name of the Celery City Horticultural Society, which is to be a branch of the State Fruit Growers' Association. The president is L. H. Stoddard; secretary, Fred Bohnet; Treasurer, W. J. Miller.

TRADE CONDITIONS.

Trade has been all that could be asked for with us and we are handling a larger volume of business this spring than usual. We are still busy filling late orders and presume trade will hold out until about the 1st of May. The outlook is that most lines of stock will clean up closely and I think nurserymen generally are having a good trade.

I anticipate a large and enthusiastic attendance at our Dallas convention.

Shenandoah, Iowa. E. S. Welch.

Personal and General.

Mr. George C. Perkins, of Jackson & Perkins Company, sails from New York early in May for an extended European tour. He purposes visiting the principal horticultural establishments in Britain and on the continent.

THE INGENIOUS TREE MISSIONARY.

This gentleman seems to be particularly active in North Carolina, and his ideas are unusually fertile. Certain parties are now selling German grafted trees, according to Horticulturist Hume of that state. The story is that the tree is grafted on a stock which transmits some special virtue to the scion, and this principle is so potent that the tree is extraordinarily fruitful, and its leaves or fruit are never attacked by insects, moles, or fungus diseases. The state horticulturist unfortunately does not take much stock in the story and is combating it in a very cold-blooded, unfeeling manner.

TRADE IN CALIFORNIA.

The *California Fruit World* is authority for the statement that the nursery business of the Pacific Coast has closed its season with a record of amount of business transacted far in excess of any previous year. The number of peach trees sold and planted is very large, and movement in grapes has been active and extensive. Great areas have been set out to apricots and citrous fruits. Prices have been high and, on the whole, the season has been exceedingly satisfactory and profitable to the nurserymen.

PEAR BLIGHT ON THE PACIFIC COAST.

Experts of the Department of Agriculture, Washington, are authority for saying that the pear industry of the Pacific Coast is doomed unless fruit growers combine and act more vigorously in their efforts to eradicate the disease. The principles of eradication are those of prevention by practicing the best kind of sanitation. All diseased areas of the trees must be treated surgically and the affected tissues cut out and burned. Prof. Waite, who is the Department's expert in this field, is most insistent that the trees should be examined with the utmost care in the fall and all "hold-over" areas either in the form of dead stubs or dead patches of bark be operated on and the infested tissue cut out and the wound disinfected.

PACKING APPLES.

HOOD RIVER ADVICE.

Much publicity has been given to the Hood River apple section of Oregon recently by the remarkable success that region has attained in marketing its apples in New York and other eastern cities. E. H. Shepard, manager of the Hood River Apple Growers' Union, characterizes the features which have contributed to the success of the association as follows: "I believe that selling F. O. B. is one of the necessities, but in order to sell this way you must control the situation. To do this you must organize an association. The members of the association must bind themselves to market their fruit with the organization. You must then educate your people to grow fruit, and secondly, see to it that the fruit is put up in first class shape, and that all inferior specimens are rigidly rejected."

Our Book Table.

Report Western New York Horticultural Society. The report of the proceedings of the 51st annual meeting of this society, held at Rochester, January 24-5, has just come to hand. This report is one of the first issued by the secretaries of the various winter fruit conventions. It is an indication of the energy and enterprise of Mr. John Hall, secretary. The report contains a large amount of instructive matter, is carefully edited, and attractively illustrated. It should be in the hands of all persons who are interested in fruit growing.

Fruit and Plant Notes.

The Division of Pathology of the Bureau of Plant Industry of the Department of Agriculture is authority for the statement that the Lenoir grape, a European variety, has proved resistant to the leaf blight disease which has been in the past such a serious enemy to the introduction of the European grape in this country. It is used principally as a stock upon which to graft other tender and susceptible varieties in the vinifera regions.

THE SOUTHERN STRAWBERRY CROP.

The main influence of the March freeze in the south was to set back the normal season of the Carolina, Alabama, and Georgia strawberries from a week to two weeks. The nearer the fruiting period when the freeze occurred, the greater was the injury. Therefore southern Alabama suffered more than North Carolina.

CALIFORNIA FRUIT OUTPUT FOR 1905.

A California committee interested in the exploitation of the fruit resources of the country have issued the following figures giving the approximate products of the State for 1905:

Figuring the fruit shipments by carloads they were as follows, according to these statistics: Citrus fruits, 33,650 cars; apricots, 1,600 cars; pears, 115 cars; prunes, 6,250 cars; canned fruits, 10,000 cars; apples, 2,500 cars; figs, 300 cars; raisins, 4,100 cars; plums, 100 cars; other dried fruits, 2,500 cars; other fruits, 21,250 cars. Total, 82,365 cars. By taking the totals they figure out 256 cars of fruit per day for every working day in the year, nearly 1,550 cars per week. There is no other state in the Union that can come even within speaking distance of California as a fruit producer. And every year the output grows larger. It requires no great stretch of the imagination to see in the near future the state sending out 100,000 carloads of fruit every year.—*Fruit World.*

CLIMBING ROSE, DOROTHY PERKINS.

Translated from the Journal des Roses (Paris,) November, 1905.

We published in the *Journal des Roses* of September, 1902, on page 129 a detailed article about this rose at the time of its origination and introduction by the American nurserymen, Jackson & Perkins.

In referring again to this variety of *Rosa Wichuriana* (which was obtained by hybridizing with pollen from the rose *Mme. Gabriel Luizel,*) it is simply to inform our readers of the popularity which this new rose enjoys in England, as well as Germany, where it is now in fully as great demand as the Japanese Rose, Crimson Rambler.

It is a sort that is unique in its class and one that French rose growers will do well to propagate in large quantities as well as to grow in all the show gardens. It flowers only once during the season, it is true, but the period of blooming is quite late and is often prolonged until September, a time when the majority of climbing roses have ceased to flower.

The inflorescence of the rose, Dorothy Perkins, which sometimes completely covers the bush, is produced in panicles of little flowers, borne in clusters of fifteen to twenty-five, according to the strength of the branches on which they are developed.

It is also a very hardy variety as we have determined by using it very satisfactorily to cover some stone walls along the track of the Alpine Railway at altitudes varying from 1200 to 1500 meters above sea level and where this rose has withstood perfectly the rigors of the past winter.

O. Baillif.

France.

FRUIT CONDITIONS IN IOWA.

Secretary Greene, of the Iowa State Horticultural Society, reports favorably as to the condition of fruits under April 9. The following percentage of crop reported for all fruits at that time was 85, which is the highest average for April since 1901. Apples, 91%; pears, 87%; American plums, 92%; European plums, 82%; Japanese plums, 86%; cherries, 84%; peaches, 77%; grapes, 87%; Red raspberries, 81%; Black raspberries, 84%; blackberries, 87%; strawberries, 91%.

Quiz Column.

CROWN GALL.

THE NATIONAL NURSERYMAN.

Kindly answer, through Quiz Column, the following: What is crown gall or root gall in apple trees? Is it a disease or condition? What is its cause? Its effect? Can it be remedied?

Oregon. G. H. ROBBINS.

1. Bulletin No. 90, part 2, of the Bureau of Plant Industry, Washington, gives a description of the crown-gall and hairy root diseases of the apple tree. This was published in 1905, and can be undoubtedly secured on application. This bulletin specifies that there are three distinct types of crown gall diseases, namely, the hard crown gall, the soft crown gall, and the hairy root forms. The hairy root disease of apple is supposed to be a different type of affection. The cause of the formation of the hard and the soft gall on the roots of apples is not clearly understood. In the case of apple grafts the gall usually appears at the point of union, and from the experiments of the agents of the Department of Agriculture is encouraged by wrapping with waxed thread.

2. As stated above, the cause has not been clearly determined. The following experiments have been made by Messrs. Hedgecock and Von Schrenk of the Department of Agriculture, and may be found in Bulletin No. 100, which can undoubtedly be secured by application made direct to the writers, Missouri Bot. Gardens, St. Louis, or to the Division of Publication at Washington. The experimenters used rubber, waxed paper, cloth, plain thread, waxed thread and waxed thread with union waxed in their experiments. "From the results obtained the use of either cloth or rubber as material for wrapping apple grafts is recommended." Rubber, however, is too expensive, and cloth is thought to be the best material to employ. The writers of the bulletin "strongly advise against the wrapping of grafts with thread and also against waxing the grafts." The bulletin closes with the following summary:

"(1) The crown-gall disease of apple trees usually appears at or near the union of the scion and root piece.

"(2) The crown-gall disease may be due to an excessive growth of callus, or to an infection of fungi, bacteria, or other agencies at or near the union.

"(3) Protection of the graft at the union will serve to induce a better union and may also aid in keeping out disturbing factors.

"(4) In making grafts care should be taken to use root and scion pieces of as nearly the same size as possible."

PLANS FOR STORAGE HOUSE.

April 10, 1906.

Can you give a plan for the erection of a building for winter storage of nursery stock, of a capacity say of only 10,000 trees of the ordinary saleable size, 5 to 7 feet high? Would want it on the "heeling in" principle, not piling with moss or excelsior.

Would you excavate or build on surface? What material would you use? Would cement wall be all right? How would you guard against frost penetration through walls and doors in a latitude of 44 degrees? What about ventilation, light and any other question of importance in connection with the building that I have not asked?

J. H. WISMER, Port Elgin, Ontario.

ANSWER BY MADISON COOPER, REFRIGERATION EXPERT, WATERTOWN, N. Y.

It is difficult to give sufficient information for the construction of a building for the required purpose without giving complete plans and specifications for same. The capacity of this building also depends on individual methods of handling or "heeling in."

If the building is to be stone or cement it is an advantage to have it partly below ground. If of frame or wood construction it is better above ground, as the lumber will quickly deteriorate where it comes in contact with the dampness from the earth. If building of frame above ground, a stone wall laid in cement, or a concrete wall should be built somewhat above the ground and the frame construction built on that. The studding, which may be of 2 x 8, 2 x 10 or 2 x 12, should be filled with shavings and these must be properly protected on both exterior and interior surfaces of the wall by the best grade of insulating paper. The roof must be insulated in about the same manner. If the temperature is to be maintained by ventilation, plenty of openings should be provided in the side walls and roof for the circulation of air at such times as it is desirable to open the building to outside air. The question of lighting is a matter on which there is considerable difference of opinions, but it would be better to have no windows whatever in the building so far as storage of stock is concerned. Electric lights are the best method of lighting. Practical consideration might make it desirable to have a portion or even all of the building lighted by windows, which should have double sash and should be provided with inside or outside wooden shutters which should be kept closed as much as possible.

If a stone or cement building is constructed the inside walls should be coated with some water-proofing material and studding erected and filled with shavings on the inside of the walls. A stone or concrete wall does not afford suitable protection against frost.

As a suggestion, it may be stated that a majority of the large nurserymen do not at present practice the "heeling in" method. They cord up the stock, in some cases without moss or excelsior, and if suitable temperature and humidity conditions can be maintained the packing material is wholly unnecessary. Refrigeration will doubtless come into general use for storing nursery stock, as several of the more enterprising nurserymen are interested in same at the present time.

THE RETAIL NURSERYMEN.

By Old Seed in a Pullman on a Hunting Trip.

A SOLILOQUY.

Once a high-toned family keow,
Lost her tail by a hungry beow-weow,
This made her quite sick,
But they retailed her quick,
And soon she ate hay from the meow.

As for Rum, we don't swear by it yet,
At "Four Corners" we don't know what we get,
But a Communionist swaller,
And a chaser to foller
Are sometimes not deadly, you bet.

Hoss racin' ain't often our fun
If we meet with any sporty old son,
Daddy Yates is too bulky,
But with Jim in the sulky,
With our "Pony" we'll give him a run.

On fishin' an' shootin' we'r bent
On outfits we spend our last cent,
Such stories not true
Are believed only by few,
But it's right to talk fishy in Lent.

Now all you young kids
Try and keep on your lids,
And be sure to spin your yarns straight,
Don't take after your Pa,
When he lies to your Ma,
As to why he hangs out so late.

Ther's a gal in yon chair
With all puckered red hair,
She's a peach and I'm sure is high-strung,
She's no use for me,
Thinks I'm old as B. C.;
Oh Gee! How I wish I was young.

Now I'm nearing the end of this run,
You are sure I'm not built to make fun,
But right under this seat
In a case very neat,
Is the cause of this mix, 'tis the Gun.

This effusion which though it may be a little off its "poetic feet" nevertheless illustrates the spirit—and a proper one—of the man who is 50 or more years young, and is offered for the purpose of stimulating the muse of our brethren.—*Poetic Editor.*

Obituary.

AUGUST RHOTERT.

We regret to chronicle the death of this widely known importer. Mr. Rhotert had been in business at 26 Barclay Street, New York City, for a number of years and had an extensive American connection as representative of some of the leading European growers. He died at his home in New York at 8 o'clock Monday morning, April 9th. His decease will be a source of keen regret to his wide circle of business acquaintances and warm personal friends.

MURRAY STEELE KERR,

Son of John S. and Amelia R. Kerr, of Sherman, Texas, was born September 4, 1882, died at Butte, Montana, on March 20, 1906, was buried at Sherman, Texas, on March 26, 1906.

M. S. Kerr was a strong, forceful young man of sterling worth, of sober, industrious and enterprising characteristics, and leaves a pure unblemished record.

He was a member of the Presbyterian Church and of the Masonic Fraternity and the Miners' Union, and enjoyed the highest esteem of all who knew or came in contact with him; his loss is sadly felt. THE NATIONAL NURSERYMAN circle extends to Mr. and Mrs. Kerr sincere sympathy.

GEORGE HERMANN ELLWANGER.

The city of Rochester lost a noted horticultural authority and literary writer in the death of George Hermann Ellwanger, who passed away the last week in April. Mr. Ellwanger was the son of George Ellwanger, president of the firm of Ellwanger & Barry. He was born in 1848. He was a man of cultured tastes and literary leanings. His writings, which comprise a dozen or more volumes, bear upon the sentimental, philosophical, folk-lore, as well as technical sides of horticulture. His greatest successes were attained in the nature study presentations of country-side subjects. His primary education was completed by four or five years' study in Germany and Switzerland. Among the more important publications on which his name appears as author are: "The Rose," first written by his brother and revised by himself, "The Garden Story," the "Story of my House," "In Gold and Silver," and a number of shorter essays on subjects related to country life. Mr. Ellwanger was a man of deep poetic sympathies, as well as being a man of fine literary instincts. His loss will be deeply felt in Rochester and Western New York generally.

JOHN C. BLAIR.

At Kansas City on April 17th this prominent western nurseryman passed away after a lengthy and severe illness.

John C. Blair was born in Pennsylvania in 1840. He first engaged with two brothers in the nursery business at Lee's Summit in 1867. He formed a partnership with William Kauffman in 1882, and has maintained offices in Kansas City, growing his stock is Argentine, Kansas, since that time.

His loss is keenly felt by business associates and friends.

Catalogues Received.

Oregon Nursery Co., Salem, Ore. Descriptive catalogue of fruit and ornamental trees, shrubs, plants, etc. 5th edition.

Jewell Nursery Co., Lake City, Minn. General catalogue fruit stock, tree and small fruits, hardy and semi-hardy.

The Flansburgh & Potter Co., Leslie, Mich. Catalogue and price list of strawberry plants and other small fruits. Spring 1906.

H. J. Weber & Sons Nursery Co., Nursery, Mo. Illustrated and descriptive catalogue of fruit and ornamental trees, evergreens, shrubs, etc.

Andorra Nurseries, Chestnut Hill, Philadelphia, Pa. Price list of specimen trees, shrubs, roses and fruit. Spring 1906.

Charles Détriché, Angers, France. Wholesale price lists and general catalogue. 1905-1906.

W. Fromow & Sons, Windlesham, Surrey, Eng. Trade catalogue, 1905-1906, of American plants, coniferæ, hardy evergreen and deciduous trees and shrubs, etc.

Arthur J. Collins, Morristown, N. J. Catalogue of nut trees, small fruits, fruit trees, etc.

Eugene Willett, North Collins, N. Y. Wholesale price list, 1906, grapes and other small fruits.

Frederick W. Kelsey, 150 Broadway, New York. Catalogue of choice trees and hardy shrubs. 1906. 84 pages.

J. H. Hale, South Glastonbury, Conn. Catalogue of fruits for 1906. Strawberries a specialty.

The L. Green & Son Co., Perry, Lake Co., Ohio. Wholesale Trade List.

D. Hill, Dundee, Ills. Wholesale Catalogue of Evergreens.

Arthur Bryant & Son, Princeton, Ills. Sixty-first year Trade List.

The Donaldson Co., Warsaw, Ky. Semi-Annual Wholesale Price List.

Bay State Nurseries, Windsor H. Wyman, Prop., North Abington, Mass. Wholesale Trade List of Trees, Shrubs, Vines, etc.

F. & F. Nurseries, Springfield, N. J. Trade List Wholesale.

Herbert A. Jackson, Portland, Maine, Wholesale Catalogue.

The Reading Nurseries, J. Woodward Manning, Prop., Reading, Mass. Monograph No. 2. Collected plants of Mt. Laurel and Rhododendron maximum.

W. H. Moon Co., Morrisville, Pa. Wholesale Trade List.

Bloodgood Nurseries, Flushing, L. I., N. Y. Spring Wholesale List.

W. C. Reed, Vincennes, Ind. Semi-annual Wholesale List.

L. L. May & Co., St. Paul, Minn. Wholesale Seed Catalogue.

Geo. L. Taber, Glen St. Mary, Fla. Catalogue, Sub-tropical Fruits and Plants.

The Coe, Converse & Edwards Co., Ft. Atkinson, Wis. Hardy Fruits and Ornamentals.

Jacs. Smits, Ltd., Naarden (Holland). Ornamental Shrubbery, Weeping Trees, etc.

The Conrad & Jones Co., West Grove, Pa. New Floral Guide 1906.

Vick & Hill Co., Rochester, N. Y. Wholesale Price List, Bulbs, Plants.

California Rose Co., Los Angeles, Calif. Illustrated and Descriptive Book of Roses, etc.

California Nursery Co., Niles, Calif. Twenty-third Catalogue and Price List.

P. Ouwerkerk, Weehawken Heights, N. J. Nursery Trade List.

James Vicks Son's, Rochester, N. Y. Garden and Floral Guide.

Chico Nursery Co., Chico, Calif. Descriptive Catalogue.

Oak Lawn Nursery, Huntsville, Ala. Wholesale List.

Peterson Nursery, Wm. A. Peterson, Prop., Chicago, Ills. Spring Shipping Price List.

T. S. Hubbard Co., Fredonia, N. Y. Wholesale Price List of Grape Vines.

Albertson & Hobbs, Bridgeport, Ind. Semi-annual Wholesale Price List Spring 1906.

P. J. Berckmans Co., Augusta, Ga. Wholesale Trade Catalogue.

Geo. Achelis, West Chester, Pa. Trade List Spring 1906.

N. Ohmer, Dayton, Ohio. The New Century Apple.

Rakestraw & Pyle, Kennett Square, Pa. Spring 1906 Wholesale List.

Edward Gillett, Southwick, Mass. Wholesale Trade List.

W. B. Cole, Prop., Painesville, Ohio. Price List to the Trade.

Irving Ingels, Prop., LaFayette, Ills. Nineteenth Annual Catalogue and Price List.

The Deming Company, Salem, Ohio. Spraying Apparatus.

Samuel C. Moon, Morrisville, Pa. Spring 1906 Trade List.

W. W. Hunt & Co., Hartford, Conn. General Catalogue.

C. R. Burr & Co., Manchester, Conn. Wholesale List.

Bobbink & Atkins, Rutherford, N. J. Importers Wholesale List.

Thaddeus N. Yates & Co., Philadelphia, Pa. Trade List of Hardy Deciduous and Evergreen Trees, Shrubs, Vines, etc.

Hoopes Bro. & Thomas, West Chester, Pa. No. 1, Hand-book of Fruit Trees and Plants. No. 2, Hand-book of Ornamental Trees and Plants. No. 3, Semi-annual Trade List, Spring, 1906.

The Greening Company, Monroe, Mich. List of Bargains on Surplus Peaches.

Legislation.

RECENT CHANGES IN STATE REGULATIONS AFFECTING NURSERY STOCK.

THE LAWS OF FLORIDA AFFECTING NURSERYMEN.

Under the date of March 26, 1906, the following act went into effect in Florida. This makes it unlawful for non-resident nurserymen to operate in that State without paying a license tax:

Section 1. On and after the passage and approval of this Act, it shall be unlawful for any person, or persons, corporation or firm, to sell or offer for sale, who do not reside within this State, any fruit trees or flower plants without first having paid a license tax to the Collector of Revenue, of the county in which said fruit trees or flower plants are sold or offered for sale, in the sum of twenty-five dollars per annum, and upon the payment of said sum of twenty-five dollars, the County Judge of the county in which said fruit trees and flower plants are sold, or offered for sale, shall issue to such non-resident in the same manner and form as other license taxes are now issued in the several counties in the State of Florida, to persons to do and carry on business in said counties.

Section 2. Any person or persons, corporation or firm, violating the provisions of this Act, shall be deemed guilty of a misdemeanor, and, upon conviction, shall be punished by a fine, not less than twenty-five dollars, or more than one hundred dollars, for each offense, or imprisoned in the county jail not more than three months, or less than thirty days, at the discretion of the court.

Most nurserymen are aware that the above law is unconstitutional, for the reason that it is in conflict with the commerce clause of the Federal laws, and therefore cannot be enforced, if a nurseryman makes objection to paying the tax.

GOOD WORK OF COMMITTEE ON CLASSIFICATION.—RATES ON SEEDLINGS LOWERED.

We have just been advised that our protest with the Official Classification Committee has been effective, and that the Eastern Classification will be changed and go into effect on July 1st next, classifying "Seedlings" same as Trees, 2d class, less 15 per cent.; carload, 5th class. This will take the place of the rate on Seedlings, effective from January 1st, 1906, which carried 1st class L. C. L. and 2d class C. L. lots.

We are pleased to be able to make this report to the nurserymen.

New York city. McHUTCHISON & Co.

FRUIT PROSPECTS IN TEXAS.

I have examined the fruit crop, and find that we are not badly hurt. Apparently, there is plenty of Elberta and other peaches, also pears, grapes and berries. The apple crop is thoroughly dormant, and I could see that it was damaged. Many tender blooming sorts will be cut short, but the majority of the fruit crop is safe, so far, barring late April frosts, which are not impossible. The season, however, is backward.

Much corn will have to be planted over. Potatoes, of which there is a fair crop planted, are doubtful. Wheat is looking fine, and the oat crop is in reasonable condition.

Sherman, Texas. JNO. S. KERR.

THE DANSVILLE DISTRICT.

ED. NATIONAL NURSERYMAN:

The bulk of stock that is grown in Dansville is shipped in the fall, consequently the shipping from this point in the spring is not a large item with us, although our retail people are very busy, and their sales are above normal. Stock of all kinds is cleaned up very close, and many 1 year trees have been dug and shipped. Stock has wintered well and there has been but slight damage done by the cold. There will be for fall about the usual amount of stock, as last season was an exceptionally good one for growth, stock should be extra fine this fall. Perhaps a shortage in Cherry and Std. Pear. The plantings will be about the same as last year, and the nurserymen are now very busy in getting their stock into the ground. Every available man and team is pressed into the service. There will be some heavy plants made of Norway Maple and Peach. We are all hoping that the year will be a good one. There will be several that will attend the Nurserymen's Convention from Dansville. The planting machine patented and introduced by Mr. C. F. McNair is a machine worthy of the highest praise, and we endorse it most heartily, and believe every wide awake nurseryman should have one. It reduces the cost of planting materially, and by its use stock is planted erect, and we get a more uniform stand. We are not "plugging" for this machine, but we feel as if all nurserymen should have one.

J. B. MOREY.

EVERYTHING LOVELY IN KANSAS.

THE NATIONAL NURSERYMAN:

The most beautiful February, followed by the coldest March, in years has left us late with our planting. The former month gave us a fine time to get out our stock. Little of it was shipped before March however and not then till the middle or later.

Prices ruled low on apple which is our staple. Cherry and Plum prices were better, with very few at Topeka except those that were shipped in. Peach were held up in price that was not justified by supply and demand, and some were left on hand. Other products, including apple were sold out close, which makes the future look brighter than it has since the year of the flood.

The rainbow of promise is in the heavens at this time. The fruit year that has been promised us by the indoor horticulturist for the past few years is upon us at this time. We have never had better prospects than we have at this time. Peach and pear have passed the blooming stage, and cherry and early apple are as white as snow.

With the strawberry in bloom and the best wheat crop nearly at hand, who could help but know that Kansas is all right. The valley that was washed out by the great waters is to-day sending money and car loads of provisions to their countrymen at the Golden Gate.

Seed planting, like other work, is behind this season. If we were guessing last year concerning apple seed situation, we are doing nothing of the kind this year. We don't know enough to even guess. More rotten seed floated across the waters this year than was ever known before. The ordinary seedling man is wrapped up and loaded down with disgust. With uncovered head he stands before his Maker and promises himself he will never again engage in so unholy a business; but he will. We make no predictions, but we shall see what we shall see. Yours truly,

Topeka. A. L. BROOKE

AMERICAN ASSOCIATION OF NURSERYMEN, AT DALLAS, TEXAS, JUNE 13, 14, 15, 1906.

For the above occasion, arrangements will be made to run a special Pullman sleeping car through (without change) from Rochester and Buffalo to Dallas, via St. Louis, Mo.

For information regarding rates, sleeping car reservations, apply to C. L. YATES, care NATIONAL NURSERYMAN, room 204, Cox Building, Rochester, N. Y.

Editorial Rambles.

GEORGIA AND ALABAMA.

It is most gratifying to learn that since our last notes of this character written at Augusta, Georgia, just after the severe freeze of March 22nd, there has come reassuring news that the peach crop was not wiped out, in fact was only injured to a slight extent. When in Atlanta on the 22nd the outlook was gloomy and the reports from the various districts were exceedingly dubious.

Leaving Atlanta on the 22nd, our route carried us to the northwest through the flourishing town of Rome, where the thriving nursery and orchard business of G. H. Miller & Son is located. The Millers, while primarily nurserymen, are largely engaged in orcharding in the vicinity of Rome. The objective point of this side trip was Huntsville, which was reached early on the morning of the 23rd. We were met by that worthy representative of a great nursery family, Herbert C. Chase, and given a glimpse of the town and the large tracts of land occupied by nursery stock owned by the Alabama Nursery Company. The region is an interesting one but we shall have more to say about it later on when we hope to treat these nurseries individually. The afternoon of the day was devoted to a very enjoyable drive to the grounds of the Huntsville Wholesale Nurseries under the personal guidance of Mr. W. F. Heikes, manager. One is struck by the order, regularity, and system which prevails with factory like regularity in both of these companies. It is almost inconceivable to the Easterner who banks so much upon good transportation, to think that the great Huntsville Nurseries are located about twelve miles from the railway station, and that all the stock which goes to the retail distributing points must be transported by wagon over this stretch of road. Such is the case, and it is done economically and satisfactorily.

A SOUTHERN STRAWBERRY SECTION.

Here and there in the south as elsewhere, one finds regions which have developed comparatively recently, and in response to some incentive, either in the form of eastern or southern capital or because of peculiarly favorable conditions of soil or climate. In the southeastern tier of counties, not very far from the Florida line, there is on the line of the Louisville and Nashville Railway quite an important strawberry growing center which has only a few years of history. This region is a somewhat elevated hammock tract of land, light and sandy in character, but warm, and owing to its elevation not as subject to frost as other sections in the vicinity. Here strawberries are cultivated quite extensively and have become a decided specialty. The railroads have assisted the growers in providing very good transportation and the eight or ten hundred acres of land devoted to the growing of strawberries have given a distinction to fruit growing in that part of the country.

There are many peculiarities, social and industrial, in Southern Alabama, and one might spend considerable time in studying these. The colored man is in evidence and greatly preponderates numerically. The mule the nomadic hog and the ubiquitous chicken are familiar features of the roadside and village. One may count on some form of chicken on the restaurant or hotel table at every meal.

A GEORGIA NURSERY.

Drifting northward again we found ourselves next morning in the hospitable home of Charles T. Smith, of the Concord Nurseries, located about fifty miles south of Atlanta. Here one finds a splendid example of the possibilities of thrift, pluck, and perseverance. The Smith Brothers have developed a fine business, and are surrounding themselves with a large nursery plant, but at the same time are not forgetting business association and the welfare of the community at large.

A few hours' run still farther south brought us to Fort Valley, where we were welcomed by a truly tropical downpour of rain which fully illustrated the eroding and washing possibilities of rainstorms in the South. The genial superintendent of the Hale Orchard Company, Mr. Baird, with his assistant, Mosely Hale, showed us a beautiful sight in the peach orchard just then passing out of bloom. Frost had done no material damage and the promise for a magnificent set was good. The peach area in this section responding to the stimulus given by the success attained by Mr. Hale's enterprise is extending steadily each year. The advance in price of land through this section is very considerable. There is no boom on, but there is a steady growth.

THE PECAN INDUSTRY.

We were anxious to meet some of the promoters of this industry, and accepted with much pleasure the invitation of Mr. Herman C. White, of Dewitt, to look over his large pecan nursery and orchard. There certainly is an enterprise thoroughly worth studying. There are those who think the pecan to be successfully cultivated must be grown in the deep strong soils of the lower Mississippi region. But the growth which the trees are making in south Georgia and in northern Florida together with the fruitfulness of those which are in bearing is refuting such a statement and furnishing quite convincing proof that the pecan region is not limited to Louisiana, Mississippi and Texas. There is a great deal of activity displayed in this line of orchard work, and many large plantings are being made.

A NORTHERN ORANGE GROVE.

That the entire orange industry has not moved south in obedience to the repeated warnings given by cold winters is proved by the thrifty orange grove owned and managed by Mr. G. L. Taber of Glen St. Mary, Florida. Here within eight or ten miles of the Georgia line Mr. Taber is growing orange nursery stock in great quantity and shipping carloads of oranges and grape fruit. Not quite laughing at the winters, he is at any rate circumventing their severe injuries by careful selection of stocks and hardy varieties.

On the same line of railway between Glen St. Mary and Jacksonville, and within neighborly distance, is the flourishing plantation of the Griffing Brothers. One sees at this place the possibilities of indefatigable industry, energy and coupled with progressive spirit. Nursery lands are being developed, pecan growing is being pushed, peach orchards in combination with pecan trees being set out, secondary crops for the complete utilization of the ground employed, and this in conjunction with allied enterprises carried on in different parts of the State make up the major portion of the activities of this firm. This enterprise is in the formative stage while the last one we examined represents more nearly the finished design.—[EDITOR.]

LEGISLATION FOR THE FRUIT GROWERS.

Hon. Orlando Harrison who is a member of the Maryland legislature did good work for the farmers and fruit growers, as well as some other important legislation for his county.

Mr. Harrison had a bill passed for the State for experimental horticulture to be carried on by the State Horticulturist and the sum of four thousand dollars annually appropriated for this specific work. Experiments will be made in different counties of the State along specific lines, as the State of Maryland has a variety of soils quite different from many other states and some of which are particularly adapted to fruit and truck growing. This experimental work can be made of great value to the tiller of the soil.

On the eastern shore of Maryland, strawberries, white and sweet potatoes, cantaloupes, peaches and pears are grown in quantities, while on the west shore, especially winter apples, late peaches, and near Washington are many strawberry and small truck growers, all of which can be helped by carefully conducted experiments.

Another bill by Mr. Harrison increased the Maryland State Horticultural Society appropriation to two thousand dollars annually. This society has a membership of over two thousand, and is doing excellent work.

Another bill aims to increase the appropriation of the Peninsula Horticultural Society, a society that has done more to advance the horticultural interests on the eastern shore of Delaware and Maryland than any other agent. Nearly every prominent orchardist of the eastern shore is a member of this society.

Another bill Mr. Harrison had passed was to incorporate a company to cut an inlet from the Atlantic Ocean to Synepuxent Bay to salt the waters for oyster planting. This will make about one hundred and twenty five acres of unprofitable land profitable for oyster planting and will be worth a million dollars or more to Worcester County when completed.

Mr. Harrison is ex-president of the Peninsula Horticultural Society, vice-president of the Maryland State Horticultural Society, and has assisted in the two societies for years. The nurserymen and fruit growers of the state have co-operated with Mr. Harrison in having the bills passed, and every nurseryman will be ready to hold up the hands of Prof. W. N. Hutt in carrying on the experimental work.

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ASSOCIATION DUTIES AND PRIVILEGES.

LISTEN TO SECRETARY SEAGER'S REMARKS.

In a circular addressed to members of the American Association of Nurserymen, Secretary Geo. C. Seager, Rochester, N. Y., makes some timely suggestions regarding the duty and privilege of the nurserymen in reference to the National Association and the forthcoming convention. The following are a few of the recommendations and requests he offers:

Every nurseryman, large or small, shares in the benefits of the association, yet the work and expense has been borne by less than five hundred.

Here is a chance to do your share. Send the annual fee of three dollars to the secretary and join the roll.

You gain many benefits.

You help pay for what you are getting.

You enroll your name among the live nurserymen of the country.

You get the Badge Book with your name and number therein.

You get the stenographic report of the Dallas convention.

You have the privilege of advertising your business in the Badge Book, which is alone worth more than the fee.

THE BADGE BOOK.

Each member receives a copy.

If you have never seen it you have missed opportunities long enough.

It is the most unique advertising offered to the nursery trade and comes once a year. Each member receives a copy and a numbered badge to identify him at the convention. Many take advertising space with their memberships.

Don't assume that your name will be included if you neglect to authorize the Secretary on receipt of this, if you have not already done so. More than one hundred and fifty have.

Don't put off answering this until to morrow. You may forget.

Don't fail to send your copy for advertisement if you have already reserved space.

On account of necessity for mailing Badge Books earlier than usual it will be necessary to close the forms May 20th. This gives ample time if prompt response is made.

Therefore do not delay.

Do not expect a second notice.

Each year memberships are received too late for insertion.

There will be more of them this year if immediate attention is not given.

Will you not induce your acquaintances in the trade who may not receive this circular to join.

We should have one thousand members and you can help us get them.

Send in your fee with your order and copy for advertising. Please do not send fee and say copy for advertisement will follow. Do the whole thing at once. If you have already sent fee and want to advertise send in the copy quick.

OREGON REGULATIONS.

Oregon passed an act on June 30, 1905, to exclude all nursery trees shipped in affected with yellows, crown-gall, black knot, or infested with San José scale or other dangerous, injurious, or destructive pest. The Commissioner of Agriculture was charged with the duty of declaring such stock a public nuisance, and directed to destroy or treat such stock as the circumstances warranted. The law also provides for the examination of nurseries and the giving of certificates, the regulation of the importation of trees from without the State, the fumigation of trees and shrubs, and the making of suitable appropriations for carrying on the work.

Snow Hill Nurseries

OFFER FOR SPRING, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. **W. M. Peters' Sons** Telegraph Office: Western Union, Berlin, Md.

Post Office: SNOW HILL, MD.

The Fraser Nursery

JOHN FRASER, Prop.

HUNTSVILLE, ALABAMA.

OFFER FOR IMMEDIATE OR LATER SHIPMENT

All Grades of CHERRY, 2 years. PEAR, Standard, 1 and 2 years. PEACH and PLUM, 1 year. MULBERRY, 1 year. PECAN SEEDLINGS and GRAFTED. CALIFORNIA PRIVET, 1 and 2 years. DWARF BOX, 1 year. AMPELOPSIS VEITCHII, 1 and 2 years. CRIMSON RAMBLER, BALT. BELLE, QUEEN OF PRAIRIE and MAD. PLANTIER ROSES, own roots, 1 year.

WRITE FOR PRICE LIST

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

TREE PROTECTORS

75c. per 100. $5 per 1000.

Send for samples and testimonials. Do not wait until rabbits and mice ruin your trees. *Write To-day.*

HART PIONEER NURSERIES,

Box 27, FORT SCOTT, KANS.

Charles Detriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

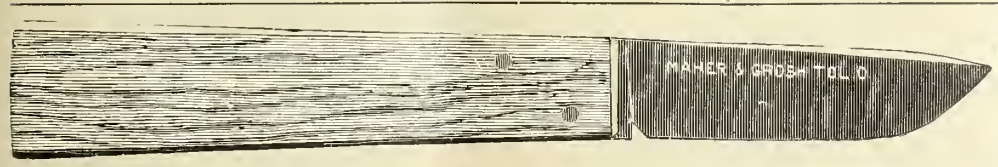
Nursery Stock OF ALL KINDS At Wholesale

Send us a list of your wants for prices. We will save you money.

AGENTS WANTED EVERYWHERE.

HART PIONEER NURSERIES,

Box 27, FORT SCOTT, KANS.



Nurserymen's 'Nives

We have been selling direct to nurserymen since '77. Our blades are hand forged and warranted; if we can learn how to make them better they will be made that way. We mail goods all over the world. Twenty of our best customers are in Europe. The cut shows our Nursery Budder, sample by mail, 25c; 12 by mail, $2 25. Pocket Budder, 35c. Nursery Pruner, sample, 50c; six for $2.50. Grafting Knife, 25c; Forged Steel Pruning Shears, $1 00, postpaid. Nursery and Florist's Propagating Knife, white handle, 50c. A much inferior knife is sold for 75c. Send for 12-page nursery circular.

Prof. Kyle, of Texas Agricultural College, writes us: "I would say that I have tried a good many different kinds of budding knives, and like this one better than any."

MAHER & GROSH CO., 90 A STREET, TOLEDO, O.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

ESTABLISH YOUR NURSERY

OR A BRANCH

Of it in the South. All Southern Nurserymen are prosperous, none of them have ever failed, because they do an immense volume of business and get good profits. Our most successful Nurserymen have come to us from other sections.

Southern land owners, fruit raisers, truck-growers and florists have accumulated hundreds of thousands of dollars. They've saved it. They took it out of the fertile soil of the South, and they are going to replant these savings year after year, for a still larger and more profitable harvest.

In ten years Virginia, the Carolinas, Georgia, Florida and Alabama, will be recognized as the greatest fruit and vegetable sections in America. The Seaboard Air Line illustrated monthly Magazine gives the reasons; you should know them and we will put your name on our complimentary mailing list upon request.

If you want a new location write us.

Seaboard Air Line Railway

J. W. White, G. I. A, Portsmouth, Virginia.

WABASH R. R.

offers unexcelled service to the

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FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

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FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

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St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

Established 1853

WEST CHESTER, PA.

offer for Spring the following surplus stock. Our Peaches are particularly fine this year and of our own growing.

PEACHES, 4 to 6 feet, $\frac{9}{16}$'s and up.

250 Alexander	200 Ey. Canada	260 Michigan Early
183 Bernard's Ey.	150 Ey. Rivers	375 Mary's Choice
300 Bronson	650 Everbearing	750 Morris White
125 Billyeu's Late	1000 Engle's Mam.	300 Holderbaum
2000 Butler's Late	10000 Fitzgerald	2000 Mt. Rose
1000 Belle of Ga.	2000 Foster	800 Moore's Fav.
4000 Chair's Choice	1500 Greensboro	637 Magnum Bonum
300 Chinese Cling	285 Geo. 4th.	1000 Reeves Fav.
190 Conkling	100 Hyne's Surprise	275 Sneed
600 Cooledges Fav.	200 Hale's Ey.	500 Stev. Rareripe
2000 Crawford Ey.	2000 Heath Cling	3000 Stump
4000 Champion	300 Hill's Chilli	600 Susquehanna
300 Christiana	1000 Klondike	300 Sallie Worrall
200 Carman	185 Lemon Cling	1000 Triumph
255 Delaware	185 Lord Palmerson	1000 Troth's Ey.
315 Druid Hill	300 Large Ey. York	180 Waddell

PLUMS, $\frac{3}{4}$'s and up.

1500 Abundance	800 Botan	300 Hale
100 Apple		

PLUMS, $\frac{5}{8}$ to $\frac{3}{4}$'s.

300 Abundance	200 Bailey's Jap.	250 Hale
200 Apple	150 Chabot	200 Oct. Purple
200 Burbank		

We have everything in the Ornamental and Shrub Line that is in demand. Write for what you need.

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS. FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties

IMMENSE STOCK WARRANTED TRUE.

QUALITY UNSURPASSED.

Catalogue and Price List Free.

Send list of wants for lowest prices f. o. b here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

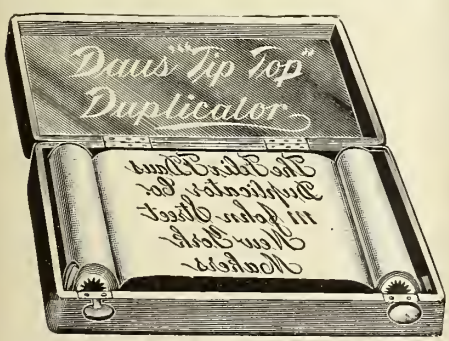
WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.



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TO PROVE that Daus' "Tip-Top" Duplicator is the best, simplest, and cheapest device for making

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we are willing to send a complete "Duplicator" **without deposit on TEN DAYS trial** if you mention The National Nurseryman.

No mechanism to get out of order, no washing, no press, no printer's ink. The product of 23 year's experience in Duplicators. Price for complete apparatus, cap size (prints 8¾ in. by 13 in.,) $7.50, subject to the trade discount of 33⅓ per cent.—**$5.00 NET.**

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Fils Aine, at USSY, Calvados, France

Grower and Shipper of NURSERY STOCK

ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.

Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

AUGUST RÖLKER & SONS, 31 Barclay Street, NEW YORK, - P. O. BOX, 752

Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*

When writing to Advertisers mention The National Nurseryman.

WE HAVE

FOR SPRING SHIPMENT, A COMPLETE LINE OF

FRUIT AND ORNAMENTAL TREES, SHRUBS, ROSES, HEDGE PLANTS, ETC., ETC.

SEND LIST OF WANTS FOR PRICES. SPRING TRADE-LIST MAILED ON APPLICATION.

PHOENIX NURSERY COMPANY,

P. O. BOX 625. ESTABLISHED 1852. BLOOMINGTON, ILLINOIS.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

FOREMAN WANTED.

Practical working Foreman and Propagator, sober and industrious, young man preferred. One who thoroughly understands Perennials, to take full charge of Herbaceous Department. Position permanent. Best of references required. Address with full particulars, and state salary expected.

ANDORRA NURSERIES, CHESTNUT HILL, PA.

Import Freight Agents Delaware, Lackawanna & Western Railroad Co.

F. B. Vandegrift & Co.

Custom House Brokers
Attorneys
General Forwarders.

Cable Address: Vandegrift, New York or Chicago. A. B. C. Code Used.

Publishers Vandegrifts United States Tariff, revised to July 1st, 1902.

Members New York Maritime Exchange.

NEW YORK: 66 Beaver Street.
Telephone 6753 and 6754 Broad.

CHICAGO: 315 Dearborn Street
Telephone 840 Harrison.

Marine and Fire Insurance Brokers.

Foreign Express to all Parts of the World.

Cartage, Weighing and Storage attended to.

Drawbacks Collected on Exports.

Passports Secured.

IMPORTING: Do you import plants, bulbs, seeds, etc.? If so, we take this opportunity of presenting our House to you, both in New York and Chicago, for attending to your Custom House business and forwarding.

OCEAN FREIGHTS: We are the largest forwarders of plants, bulbs, seeds, etc., in the United States, and by reason of the vast quantity of goods we handle we are, at all times, able to secure the lowest rates of ocean freights and shipping charges. Rates on application.

FOREIGN AGENTS: We have agents in all of the principal ports in the world, through whom your goods could be shipped for consignment to us, and we would be pleased to give you their names and full shipping directions on application.

MARINE INSURANCE: We can attend to Marine Insurance on all shipments consigned to us by having an open Marine Insurance Policy, which covers goods from the time they are shipped abroad until they are delivered to the Importer's stores or Warehouse. We will be pleased to give rates on application.

FORWARDING: We are the Import Freight Agents of the Delaware, Lackawanna & Western Railroad Co., at New York, and ship over various other lines. We attend to forwarding of goods promptly on arrival of vessel. We can pay duties and freights at New York and charge forward on goods or forward in bond, where shipments are destined for an interior port where there is a Custom House.

CONSIGNMENT: We would suggest in order to avoid delays and extra expenses that you have your shipments consigned directly to us at New York City.

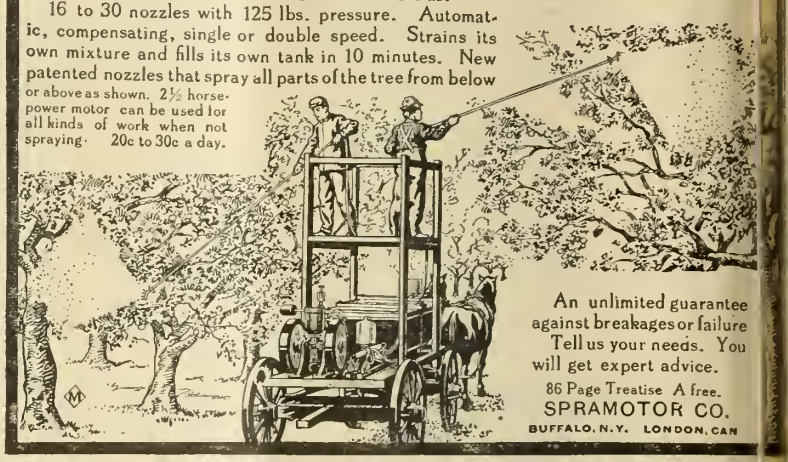
Correspondence on all subjects relating to Importing and exporting of merchandise solicited.

When writing to Advertisers mention The National Nurseryman.

Power Spramotor

SPRAYS 250 TREES PER HOUR.

16 to 30 nozzles with 125 lbs. pressure. Automatic, compensating, single or double speed. Strains its own mixture and fills its own tank in 10 minutes. New patented nozzles that spray all parts of the tree from below or above as shown. 2½ horse-power motor can be used for all kinds of work when not spraying. 20c to 30c a day.



An unlimited guarantee against breakages or failure. Tell us your needs. You will get expert advice.

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BUFFALO, N.Y. LONDON, CAN

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantalopes, $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent.

Louisville & Nashville R. R.
LOUISVILLE, KY.

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ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

SURPLUS

APPLE, PEAR, PLUM, PEACH,

Catalpa, Silver Maple, Poplar,
Box Alder,

6-8 ft., 8-10 ft. and 10-12 ft.

Black Locust and Catalpa Speciosa Seedlings,

12-18, 18-24 and 24-36 inch.

We have in cellar a general line of nursery stock and will be pleased to quote prices on your list of wants.

J. K. HENBY & SON, Greenfield, Ind.

Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted. Can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.

Peach Seed - - Peach Seed

REMOVAL SALE.

Have yet unsold a few hundred Bushel, Mixed and Smock (Crop 1905), Which we will sell at any old price at liberal discount for Cash, or any time to suit purchaser. Might it not be good policy to lay aside a few hundred Bushels for a rainy day. Samples and prices cheerfully furnished.

W. W. WITTMAN & CO.,

BOX 451. 117 Hanover Street, BALTIMORE, MD.

Choice Nursery Stock

FOR SALE

15,000 APPLE TREES, 5-8 to 3-4, for sale cheap.
100,000 CALIFORNIA PRIVET, from 1 to 3 ft.
10,000 HYDRANGEA PANICULATA, both bush and tree form. Also a large stock of FOREST TREES, WHITE, AUSTRIAN AND SCOTCH PINE OF ALL SIZES. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

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YOU CAN'T GROW

a good vigorous, thrifty plant in the shade. You can't put up an old fashioned house with heavy supporting members unless you do shade. Now we have a trussed house that reduces this shade bugaboo to the minimum. The house is just as strong, just as durable and don't cost any more than your shade traps do.

50 years of studying this shade business put us in the "Know how" ranks.

LORD & BURNHAM CO.
GREENHOUSE DESIGNERS and MANUFACTURERS,
1133 BROADWAY COR. 26TH ST., N. Y.
Boston Branch: 819 Tremont Bldg.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

COTTON BELT ROUTE

TEXAS

The Cotton Belt Route has a through direct line between St. Louis and Texas points—Dallas, Ft. Worth, Waco, etc. Through sleeper and chair car service. Vestibuled trains leave St. Louis morning and evening for Texas and the southwest.

Write for folder, map, etc.

E. W. La Beaume G. P. & T. A.
Cotton Belt, St. Louis, Mo.

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FAIRMOUNT NURSERIES

TROY, OHIO.

OFFER FOR SPRING OF 1906:

Apple, Cherry, Pear, Peach, Plum and Quince.

SPECIAL PRICES ON GOOD SIZED ORDERS FOR

European and Japan Plum.

FULL LINE OF

Ornamental Trees, Shrubs and Evergreens.

FRUIT SEEDLINGS:

Apple—(Western Grown)
Pear—(French Grown)
Cherry—(Mahaleb)
Plum—(Myrabolan, Americana and Marianna.

FOREST SEEDLINGS:

Black Locust, Catalpa Speciosa and Osage Orange.

LET US HAVE YOUR WANT LIST.

The Geo. Peters Nursery Co.

JAMES' SONS, Nurserymen

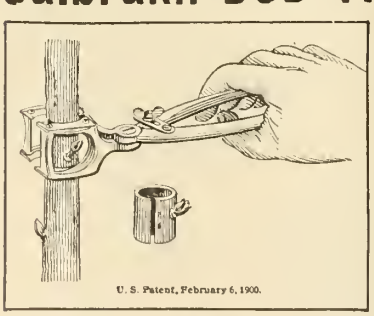
Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.

Write direct to us, we have no agents.

Galbraith BUD TRANSPLANTER



This device is simple, body aluminum, blades steel. Does perfect annular work on Pecans, Walnuts, Chestnuts, Japan Plums, Figs, etc. Send for circulars and prices.

Don't forget I am the general agent for some very valuable tools for nurserymen, among which are the

Thomas Tree Baler and Box Clamp,

Speer Grafting Machine, 4 C. Cultivator, Smoothing Harrow,

Best digging spade, etc. Send for circulars and prices to

E. C. MENDENHALL, Box 316, Kinmundy, Ill.

WHOLESALE GROWER OF

PEONIES

List of 100 varieties will be sent on request.

J. F. ROSENFIELD, West Point, Nebr.

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Bridgeport Nurseries

ALBERTSON & HOBBS

BRIDGEPORT, INDIANA

The largest and most complete in the state and one of the largest and best equipped in the country.

FOR SPRING OF 1906

PLUMS (large stock, all grades) European, Japan, Americana, CHERRIES, PEARS, Std. and Dwf. (all grades), APPLE, PEACH, QUINCE, GRAPE, CURRANTS, SMALL FRUITS, SHADE TREES, ORNAMENTAL TREES, SHRUBS, VINES, ROSES, etc., etc. APPLE SEEDLINGS, FOREST SEEDLINGS, IMPORTED CHERRY, PEAR, PLUM SEEDLINGS.

GRAFTS put up to order only—
NO JOB LOTS TO OFFER

Our SPADES the cheapest and best in the market

TRADE LIST READY FEB. 1st.

Our cellars are WELL FILLED and SHIPMENTS can be made ANY DAY. Order early and have goods set aside for you.

WANT LISTS PRICED PROMPTLY

TWO HUNDRED ACRES FIELD GROWN ROSES

Own Root—Leading Varieties

SHRUBS, JAPANESE IRIS, PAEONIES

In Thousands or Car Lots

The United States Nursery Co.

RICH, MISS.

Lenault, Huet & Colombe

. . NURSERYMEN . .

USSY, CALVADOS, FRANCE.

GROWERS AND EXPORTERS OF FRENCH NURSERY STOCK

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

CATALOGUE FREE.

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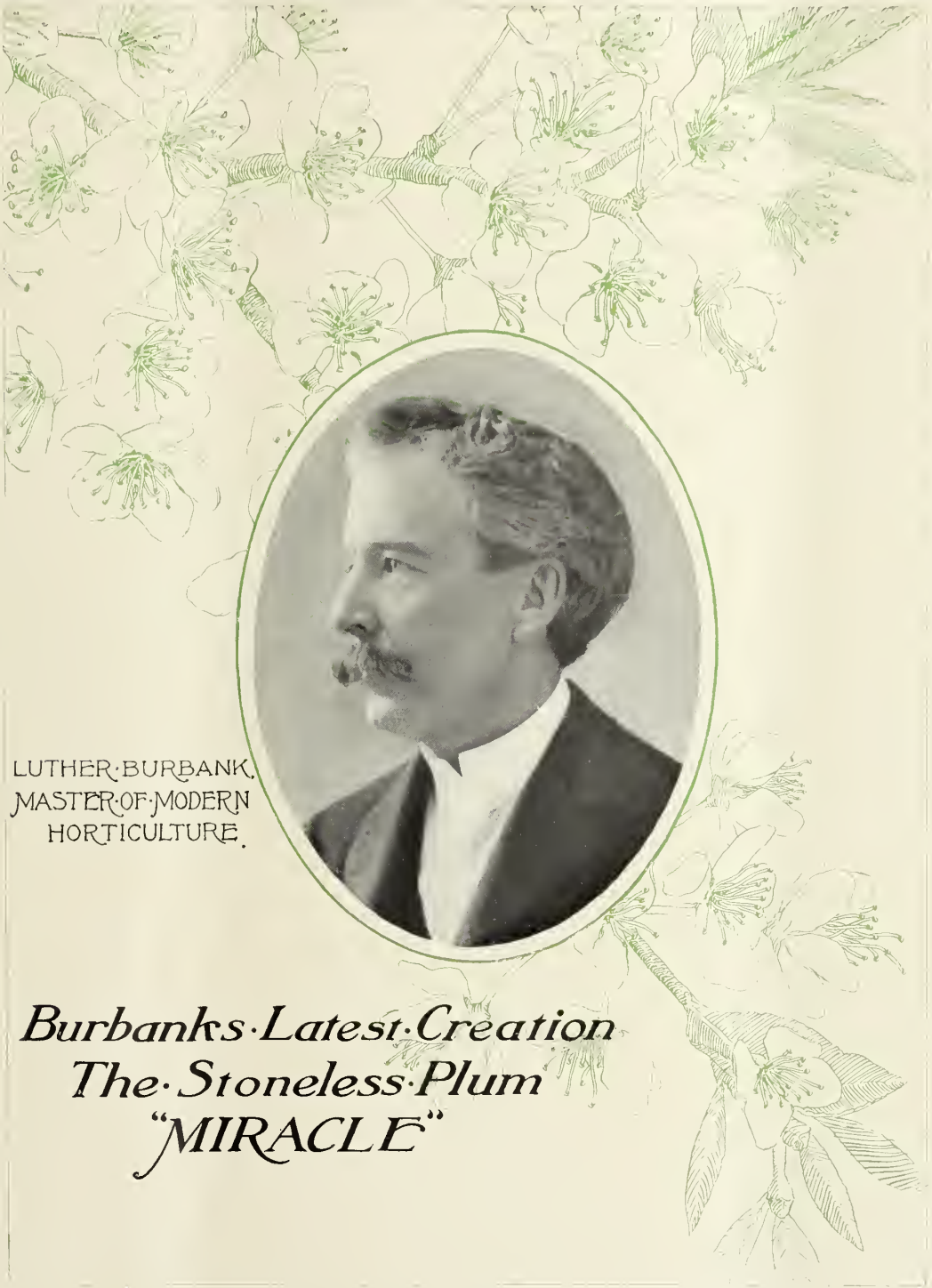
We have no Miracle Plums for sale



Front cover of a booklet made for the Oregon Nursery Company, Salem, Oregon by J. Horace McFarland Co., Harrisburg, Pa.

BUT we knew how to help Mr. McDonald, of the Oregon Nursery Company, arrange to sell the trees. It is a long reach from Salem, Oregon, to Harrisburg, Pennsylvania—about 3,000 miles—but Uncle Sam carries letters for two cents each, and we use brains trained by a quarter century's experience to intelligently supplement the suggestions of our customer. So the scheming of the color work and the planning of the book, its type-construction and proof-reading, goes on about as easily as if Mr. McDonald was close by—and *less* of his time is taken than if he were in the same city.

This "know-how" is what makes our work worth having. Do we charge for it? Yes, we do; it often saves paper and money, work and cost for those who buy it, and we are not at all ashamed to say that we *do* charge for our thoughtful, intelligent, capable service of printing for nurserymen. You can get the thought*less*, patent-medicine, wooden, tin-can label, stock-catalogue sort of work without paying for any use of brains, if you like it so!

The next three months after the Dallas convention will be the best time of the year to get our careful work for the least money. A few nurserymen will listen, believe and act; but most of you will come along in a hurry in the

Copyright, 1906, by
Oregon Nursery Company

MIRACLE (*Natural Size*). Originated by Luther Burbank, of Santa Rosa, California. A cross between the French fruit, Prunus Sans Noyeau, and the French prune. In general form, it resembles the French prune, its staminate parent, but is larger in size. The color is distinctly of the Damson type, a rich, dark purple with heavy blue bloom. Flesh of good quality, sweet, rich and juicy, with stone wholly eliminated.

"We want to say we are indeed pleased with the work you have done on this booklet, and the manner in which you have handled it—that is, in getting it out promptly . . . It is indeed gratifying to have work finished exactly as agreed upon."
OREGON NURSERY CO.

Back cover of a booklet made for the Oregon Nursery Company. The picture is accurate, and was worked out from poor photographs supplied.

late fall and pay more, by procrastination, because you hit us with short days, and steam heat and electric light to add expense! Well, do as you please; you are all prosperous and happy, anyway, and we'll serve you the best we know how, at any time.

Remember the plain story we tell—Catalogues made to sell trees and plants—thousands of illustrations ready to use—more thousands of photographs to make other illustrations—experience, equipment and knowledge to do best work—no labels, "hand-made" colored plates by the dozen, or "stock" catalogues—no platebooks.

Yours for good catalogues,

J. HORACE McFARLAND COMPANY
Mount Pleasant Press
HARRISBURG, PENNSYLVANIA

P. S.—Mr. McFarland will be at the Dallas convention, unless he gets too much scared thinking about Mr. Stanley H. Watson's special 24-hour saloon arrangements. He has never yet found the Nurserymen's Convention in a barroom, and is therefore probably safe in expecting to see at Dallas the same majority of sober, lively and prosperous gentlemen who have made the annual gathering a pleasure for themselves and an honor to any city.

Apple Trees and Apple Seedlings

With usual supply of Cherry, Peach, and Plum Trees for Fall, 1906 and Spring, 1907.

GOOD STOCK,
GOOD GRADES.

L. R. TAYLOR & SONS,
TOPEKA, KANSAS.

Import Freight Agents Delaware, Lackawanna & Western Railroad Co.

F. B. Vandegrift & Co.

Custom House Brokers
Attorneys
General Forwarders.

Cable Address: Vandegrift, New York or Chicago. A. B. C. Code Used.

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Foreign Express to all Parts of the World.

Cartage, Weighing and Storage attended to.

Drawbacks Collected on Exports.

Passports Secured.

IMPORTING: Do you import plants, bulbs, seeds, etc.? If so, we take this opportunity of presenting our House to you, both in New York and Chicago, for attending to your Custom House business and forwarding.

OCEAN FREIGHTS: We are the largest forwarders of plants, bulbs, seeds, etc., in the United States, and by reason of the vast quantity of goods we handle we are, at all times, able to secure the lowest rates of ocean freights and shipping charges. Rates on application.

FOREIGN AGENTS: We have agents in all of the principal ports in the world, through whom your goods could be shipped for consignment to us, and we would be pleased to give you their names and full shipping directions on application.

MARINE INSURANCE: We can attend to Marine Insurance on all shipments consigned to us by having an open Marine Insurance Policy, which covers goods from the time they are shipped abroad until they are delivered to the Importer's stores or Warehouse. We will be pleased to give rates on application.

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CONSIGNMENT: We would suggest in order to avoid delays and extra expenses that you have your shipments consigned directly to us at New York City.

Correspondence on all subjects relating to importing and exporting of merchandise solicited.

McHutchison & Co.

17 Murray St., New York

Sole Agents for United States and Canada for

VINCENT LEBRETON,
La Pyramide, Angers, France.
Wholesale Grower and Exporter of
French Fruit and Ornamental Seedlings, Manetti, Evergreens, etc., etc.

SCHAUM & VAN TOL,
Boskoop, Holland.
Large Growers and Exporters of
H. P. Roses, Clematis, Rhododendrons, Hardy Azaleas, Paeonies, Conifers, etc., etc.

H. W. VAN DER BOM & CO.,
Oudenbosch, Holland.
Largest Holland Nurseries of
Norway and Schwedlers Maples, Chestnuts, Thorns, Deciduous and Evergreen Trees of all kinds.

SPECIAL PRICES upon Japanese Maples, Sciadopitys and all Japanese Nursery Stock, also English and Foreign Nursery Stock of every description mailed upon application.

RAFFIA, Red Star Brand.
We are large direct importers. The Red Star Brand stands for quality. Write for prices.

SHIPMENTS: Import and Export attended to. Our facilities enable us to take advantage of lowest rates consistent with safety of perishable stock.
Write us. If in doubt, write us. If not, write us anyway.

McHUTCHISON & CO.
17 Murray Street, NEW YORK CITY.

Trees Wanted

For Fall Shipment one or more car loads of well grown stocky

Carolina Poplars

in sizes from 3 to 6 inches in diameter.

PETERSON NURSERY,
108 La Salle St., Chicago, Ill.

Officers of the American Association of Nurserymen

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Vice President,
The Harrisons Nurseries, Berlin, Md.

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Storrs & Harrison Co., Dayton, Ohio.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., JUNE, 1906. No. 6.

A LOUISIANA PLANT BREEDER.

CITRUS FRUITS—ORNAMENTALS.

J. L. NORMAND.

Working quietly and persistently, Mr. J. L. Normand, of Marksville, La., has made some important additions to the list of valuable fruits and ornamental plants adapted to the Middle South. We have prevailed upon him to write a few lines regarding the breeding work in which he is so deeply interested, and in which he is making notable progress.

[Editor]

This is a subject that is of much interest to the progressive horticulturist of the country, judging from the numerous letters I get, asking many questions on the subject. About twelve years ago the idea took hold of me that by crossing the hardy wild Japanese orange, *Citrus trifoliata*, with the common sweet orange, such as are grown in Florida and California, that a new hardy race of frost-proof, resisting orange trees could be evolved. My first attempt, some ten years ago, was to cross the Satsuma with the C. trifoliata. I was much disappointed with the result, for out of a great many seedlings I only obtained one single cross, which was intermediate between the parent trees; the fruit produced being of inferior quality, quite bitter. I then crossed the Boone's early and Navel orange with the C. trifoliata; from this lot of seedling I had only a very few that were true crosses, one among them of which I mailed you a sample fruit, is the earliest and best of any; this is a cross between the Boone's Early and C. trifoliata, and ripens here about the first days of November, nearly two months ahead of the main crop of Florida oranges, as such varieties as the Navel, etc., are not picked before the latter part of December in Florida.

The sample fruit which I mailed you I have named the Carnegie orange. I have demonstrated to my satisfaction that by adding a slight infusion of the C. trifoliata blood to the sweet orange, it produces varieties that are of excellent quality, and will stand, and have stood, twelve degrees above zero here, in central Louisana, nearly 400 miles above the orange belt proper.

METHODS.

I am frequently asked how I manage to cross the orange. I will first say that I have to grow the tender varieties, which I want to cross, in pots, and put them indoors during the winter. When they bloom, I gather pollen from the blooms of the Citrus trifoliata and apply it to the pistils of the sweet orange, and when the fruits are ripe, the seed is carefully gathered and planted out doors in the open ground. As soon as the

Umbrella Mulberry.
Originated by J. L. Normand, Marksville, La.

little seedling trees get to be about six or eight inches high, I dig up those which show any variation from the parent trees, mainly those with trifoliata or bifoliate foliage, and transplant them under the bark of strong, five to six-year-old C. Trifoliata stock, six to seven feet from the ground. I frequently transplant as many as five to six small trees on one stock; these grow much more rapidly and sometimes fruit the second season. They are grown for several years in the open ground, to test their hardiness; those that succumb to the cold are cut off, and I keep only the product of the "survival of the fittest." When I am satisfied as to the quality of the fruit, I propagate them by budding them on small Citrus trifoliata stock.

STOCK-GRAFTING.

Many of your readers will want to know how to transplant small seedling trees on large stocks. I always have a supply of five to six-year-old C. trifoliata stock, eight to nine feet high, which are trimmed of all thorns to a bare pole. In July or August, when the bark lifts easily, I dig up my small seedlings and wash all dirt off the roots that may adhere, and gently rub them down with a dry rag to take off the surplus moisture. An incision is then made on the stock like a miniature door, the bark carefully lifted, and the roots tucked in under the bark; the door is then shut and waxed over with pure beeswax, and bandaged. My stock is then topped to force the sap in the small seedling trees, and the way these small, slow-growing seedlings are made to grow, would astonish you.

I expect to fruit a few more of my hardy cross-bred oranges this year, and will keep your readers posted on any variety that may be of value.

UMBRELLA MULBERRY.

Among the new things which originated here on my grounds is the Umbrella Mulberry; this is a seedling of the Tea's Weeping Mulberry. It might be supposed that a freak like the Tea's Weeping Mulberry would produce still other unaccountable freaks. The tree, of which I send you a photo, is a perfect gem in its habit of growth. It is about the most compact deciduous tree in existence; it forms a round thick head; so dense and so close is the foliage set that not a ray of sunshine can go through; the leaf stalks are not over half an inch apart, while the parent tree (Tea's Weeping Mulberry) has leaves set at least four inches apart; this is certainly a wide divergence from the parent tree. I believe this will be the tree to set out in parks, avenues, and for shade. I bud them seven to eight feet from the ground for shade trees, on common mulberry, and I also grow them by cuttings, which make bushy trees near the ground.

J. L. NORMAND.

ANNUAL MEETING.

COMMERCIAL CLUB, DALLAS.

SUMMARY OF ADDRESSES AND DISCUSSIONS.

WEDNESDAY, JUNE 14, 1906, 9 A. M.

Calling to Order, by President E. Albertson, of Indiana.

Welcome to Texas, by Stanley H. Watson, of Houston.

Response, by Judge Lynn, of Rochester, N. Y.

Welcome to Dallas, by Hon. John A. Ewton, President Hundred and Fifty Thousand Club.

Response, by Congressman N. W. Hale, of Tennessee.

Welcome to the Orchards of Texas, by Roland Morrill, of Morrill, Texas.

Response, by J. H. Hale, of Connecticut.

President's Annual Address, E. Albertson, of Indiana.

REPORTS OF STANDING COMMITTEES.

On Transportation.

On Tariff.

On Legislation.

Report of Secretary.

Report of Treasurer.

Selection of State Vice-Presidents.

THURSDAY, JUNE 14, 1906, 9 A. M.

"Specific Requirements of New Varieties in California Fruit Growing," Prof. E. J. Wickson, Berkeley, California.

"The Importance and Best Methods of the Bud and Scion Supply in Propagating," C. C. Mayhew, Texas.

"On Credits," Geo. S. Josselyn, New York.

"The Best Stocks for Plums," Prof. T. V. Munson, Texas.

FRIDAY, JUNE 15, 1906, 9 A. M.

"An Uniform Standard of Grading Nursery Stock, and Its Universal Adoption," E. A. Chase, Alabama.

"Ornamentals, Their Increasing Importance, Propagation, etc.," J. Wilkinson Elliott, Pittsburg, Pa.

"Commercial Fertilizers for Trees," W. F. Heikes, Alabama.

"Storing Nursery Stock, Dampness, Temperature, Packing, etc.," Wm. Pitkin, Rochester, N. Y.

Opening the Question Box.

Report of Committee on Exhibits.

Report of Committee on Resolutions.

Election of Officers; Selection of Next Place of Meeting.

Program Committee: Chairman, John S. Kerr, Sherman, Texas; Herbert S. Chase, Huntsville, Alabama; C. J. Brown, Rochester, N. Y.

National Nurseryman's Gallery of Vice-Presidents.

ALABAMA.

W. F. Heikes,

manager Huntsville Wholesale Nurseries, Huntsville, Ala. Prominent in pomological organizations, president Alabama State Horticultural Society, member American Pomological Society.

CALIFORNIA.

Charles W. Howard,

secretary of the Chase Rose Company, Riverside, Cal.

COLORADO.

George J. Spear,

proprietor of the Greeley Nurseries, Greeley, Col.

CONNECTICUT.

C. R. Burr,

one of the younger New England nurserymen, proprietor of the Oakland Nurseries, C. R. Burr & Company, Manchester, Conn.

GEORGIA.

Robert C. Berckmans,

member of firm of P. J. Berckmans Company, incorporated, Augusta, Ga. Chairman legislative and transportation comittee Georgia Peach Grower's Association, president Georgia Peach Grower's Association, president Monte Sano Land Company.

ILLINOIS.

Irving S. Spaulding.

INDIANA.

W. C. Reed,

The Vincennes Nurseries, Vincennes, Md.
Chairman Transportation committee Am. Assoc. of Nurserymen.

INDIAN TERRITORY.

W. R. Collins,

secretary and manager of the Durand Nursery Company, Durand, Indian Territory. One of the new and thriving institutions of the Southwest.

IOWA.

Samnel Lorton,

Nichols & Lorton, Davenport, Iowa.

KANSAS.

F. W. Watson,

of F. W. Watson & Co., Topeka, Kas.

KENTUCKY.

H. F. Hillenmeyer,

junior member of the firm of H. F. Hillenmeyer & Sons, Lexington, Ky.

MARYLAND.

Joseph Davis,

Franklin Davis Nursery Co., Baltimore, Md.

National Nurseryman's Gallery of Vice-Presidents---Continued

MASSACHUSETTS.

Harlan P. Kelsey,

the proprietor of Kelsey's Nursery at Highlands, N. C., with its branch at Salem, Mass. Hardy American plants the watchword.

MICHIGAN.

Charles A. Ilgenfritz,

president of the Monroe Nursery Company, I. E. Ilgenfritz Sons Company, established 1847, incorporated 1902, Monroe, Mich.

MINNESOTA.

Roy Underwood,

secretary of Jewell Nursery Company, Lake City, Minn.

MISSOURI.

Jesse S. Butterfield,

The Lees Summit, Star Nurseries, Lees Summit, Mo.

NEBRASKA.

A. J. Brown,

of the firm of Youngers & Company, Geneva, Neb. A veteran of over thirty year's experience in Nebraska tree growing.

NEW HAMPSHIRE.

John C. Chase,

famous label Manufacturer, Derry, N. H.

NEW JERSEY.

Hiram T. Jones,

proprietor of the Union County Nursery, Elizabeth, N. J. An extensive grower of fruit and ornamental trees.

NEW YORK.

D. H. Henry,

general manager of the firm of Sears, Henry & Company, nurserymen, Geneva, N. Y.

NORTH CAROLINA.

J. Van Lindley,

president of the J. Van Lindley Nursery and Orchard Company. Member of the American Pomological Society, one of the oldest members of the American Association of Nurserymen, prominent in business affairs at Greensboro, N. C.

OHIO.

W. N. Scarff,

proprietor of Scarff's Wholesale and Retail Nursery, New Carlisle, O. Associated with the introduction of many new fruits.

OREGON.

M. McDonald,

president Oregon Nursery Company, one of the large nursery growing enterprises on the northwest Pacific Coast.

OKLAHOMA.

J. A. Lopeman,

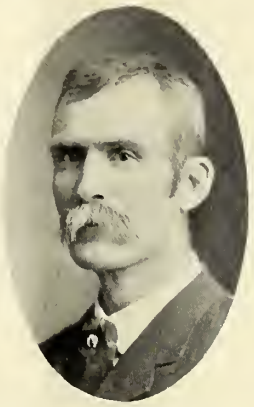
vice-president for Oklahoma, proprietor of the Enid Nurseries. A pioneer and leader in the nursery circles of Oklahoma

National Nurseryman's Gallery of Vice-Presidents---Continued

PENNSYLVANIA.

J. Horace McFarland,

The Mt. Pleasant Printery, Harrisburg, Pa.



SOUTH DAKOTA.

George H. Whiting,

propietor of the George H. Whiting Nurseries, Yankton, S. D. Born in Illinois and came to Dakota via Iowa, Minnesota, and the Pacific Coast. The largest nursery in the Dakotas.

TENNESSEE.

W. Y. C. Grant,

general nursery business, Columbia, Tenn.

TEXAS.

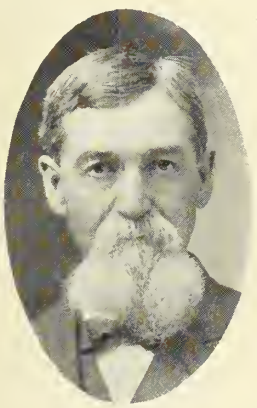
Edward W. Knox,

a native of Texas, born, bred, and working in the Lone Star State. Member of the firm of M. N. Knox & Son, San Antonio, and president of the Texas State Horticultural Society.

UTAH.

P. A. Dix,

member of the firm of Harness, Dix & Co., proprietors of the Davis County Nurseries, Roy, Utah.



VIRGINIA.

W. T. Hood,

senior member of the firm of W. T. Hood & Company, Old Dominion Nurseries, Richmond, Va. The firm established in 1866, and doing an extensive business in the old pioneer state.

WISCONSIN,

Mrs. A. Eliza Jewett,

wife of late Z. K. Jewett, proprietor of Sparta Nurseries; business of the firm being continued by Mrs. Jewett and her son, A. J. Jewett.

RE-ORGANIZATION ALABAMA NURSERY CO.

The progressive members of the above company have initiated another step in the development of the tree growing interests with which they have been for so many years associated. The Alabama Nursery Company was formerly composed of Herbert, Charles, Henry and Robert Chase, supported by the older members of this illustrious nursery house in the East, Messrs. Lewis Chase of Rochester, and Ethan A. Chase, now of California, but formerly of the East. A division of interests has now occurred. The status of the new companies is explained in the following paragraph, sent by a member of the Alabama Nursery Company to a customer:

"Three years ago we bought land six miles east of the home place because competing lines of railway came together there, where we would like to build a packing house. Shipping facilities would be of the best. A nursery was started there. This company has recently sold that place to Charles, Henry and Robert Chase, the writer buying the interest of these brothers here Thus another competing nursery firm in the Huntsville district. The change is made for business reasons and with a feeling of good will all around. Both firms want business with you. Should you buy from each, or from any other Huntsville firm, and want all shipped together that you may have the benefit of the car rate, we will arrange that. The Huntsville nurserymen work together. While we are all keen competitors, yet we think there is room enough and that handling business to the best interest of our customers means more business for us and better service for you. The new firm has a splendid plant; they are equipped to handle your business in the best manner, and because they have been connected with this company from its organization, they are old friends of yours."

It goes without saying that this new firm, as well as the members of the original Alabama Nursery Company, have the best wishes of their friends in the nursery world for continued business success.

McHUTCHISON & CO. CHANGE PLACE OF BUSINESS.

It may interest your readers to know that we have changed our address and are now located at No. 17 Murray St., New York, instead of 218 Fulton St. as formerly.

Our increased business has made it necessary to have larger quarters. This is the fourth time we have moved and we have doubled our space each time.

NEW YORK, April 30, 1906. McHUTCHISON & Co.

[May you continue to grow.—ED.]

THE PACIFIC COAST.

BURBANK AND WICKSON ON CALIFORNIA CONDITIONS.

One of the members of the American Association of Nurserymen, who is a good deal of a traveller, and who recently visited Burbank's place, has received, in answer to a letter of sympathy sent to Mr. Burbank, the following interesting note. Our correspondent, in transmitting the note, says: "Last summer I called on Luther Burbank, not realizing the value of his time until I reached his home surroundings and saw the work going on and the number of visitors waiting to see him. I found his home as simple as any State of Maine farmer's. I am sure he reads little, if any, of the stuff printed about him, knows almost nothing of it, and cares little about it. His time is too valuable to allow him to waste it on the reading of sensational trash."

April 27, 1906.

Let me send my most hearty thanks to you for your kind thoughts for my welfare at this time. I am well, and my work is going right along, no damage done to my place with the exception of broken chimneys on my dwelling; not even a glass cracked in the greenhouse.

The whole business portion of Santa Rosa is simply a mass of wreck and ruin, twelve or fifteen dwelling houses collapsed and almost every chimney in town fell down. There are about sixty dead and thirty-five or forty injured in Santa Rosa. Temporary stores are being erected for business, and help is coming in, so there will probably not be much suffering.

San Francisco suffered more from fire than from the earthquake, but in Santa Rosa the shock was very severe, and very fortunately the fires were soon under control.

All this awful work was done in less than half a minute.

Heartily Yours,

Santa Rosa, Cal. LUTHER BURBANK.

FROM PROFESSOR WICKSON.

Professor Wickson also writes in optimistic tone. It is well known that the seed houses and floricultural establishments of San Francisco and Santa Rosa, in common with the other commercial interests of these cities, were either annihilated or seriously injured in the late earthquake which overtook the North Pacific Coast of California. We are glad to print below a letter from Professor Wickson of the Agricultural Experiment Station of California, which gives a clear idea of the influence of this disaster upon the nursery interests proper. We are much gratified to learn that the fruit grower and tree grower in California have neither suffered great material loss by the earthquake, nor is likely to be injured directly by its influence in the near future.

Professor Wickson is preparing a paper which will be listened to with great interest by the nurserymen at Dallas, on the specific requirements of new varieties in California fruit growing. This will take up the subject from the standpoint of the California producer, but will no doubt be very suggestive and useful to the fruit grower, wherever he may be situated.

EDITOR NATIONAL NURSERYMAN:

In answer to your very considerate letter of May 1st, I hasten to say that distant people seem to be more upset by our fire and earthquake than those who are nearer the center of disturbance. I cannot see how there can come any injury to our nursery establishments, except in two ways: First, losses to those who had offices and sales-yards in San Francisco—and they were very few; second, losses to commercial florists, both by destruction of their outfits and by losses of their sales in the city, and in this line the losses will be very great. There can be no injury whatever to nursery stock in the ground, because there was no disturbance of agricultural land, and the geologists have to look pretty closely for any displacement which is capable of measurement. The largest California nursery establishments were distant from the district where the most severe shaking occurred. Mr. Burbank, perhaps, came nearest to a center of destruction, because his residence is within half a mile of the court house at Santa Rosa, which was thrown down; but Mr. Burbank lives in a small frame house, and experienced, I understand, no losses worth mentioning. The part of Santa Rosa which was destroyed consisted of flimsily built brick stores, hotels, etc, and even the court house itself was not a safe structure. The residence part of the same town was not seriously injured. Generally speaking, the only losses which can arise to our horticultural interests will be found in whatever disturbance to the regular trade may ensue, and not to any injury to person or property.

Berkeley, May 7, '06. E. J. WICKSON.

THE PROMISE OF A FRUIT CROP.

THE OUTLOOK CHEERING.

The winter was far from a normal assortment of cold weather. Abnormal conditions always threaten and injuriously influence the fruit grower's crops. Especially is it so with those things which are sensitive to extremes of heat, or of cold. In New England and New York, especially New York, peaches and Japanese plums were injured, not so much by excessive cold, as by abnormal heat during January and February. At one time it was thought that the crop would be entirely lost. The proof of the pudding has shown that the winter's estimate in New York was wide of the mark. There will in all probability be a moderate crop of peaches in the Empire State, and probably a medium sized crop in New England. The Georgia crop will be considerably under the maximum, while West Virginia and Delaware will be up to or above the average, or better. All through the East the bloom of apple and pear has been abundant. Reports from Illinois and the Southwest indicate that late frosts and cold weather have prevented the set of apples and lessened the prospective crop materially. It is too early to predict with any degree of accuracy the probable crop of apples, but it now bids fair to be a full average one, and if weather conditions favor the production of fair fruit, the apple grower need not complain for lack of fruit, at any rate, when the harvest arrives.

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VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

Official Journal of American Association of Nurserymen.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

Address Editor, Ithaca, N. Y.

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ROCHESTER, N. Y., JUNE, 1906.

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Programme—John S. Kerr, Sherman, Tex.; H. S. Chase, Huntsville, Ala.; C. J. Brown, Rochester, N. Y.

Publicity—Ralph T. Olcott, Rochester, N. Y.; John C. Chase, Derry, N. H.; Stanley H. Watson, Houston, Tex.

Exhibits—J. H. Skinner, Topeka, Kas.; J. C. Hale, Winchester, Tenn.; C. C. Mayhew, Sherman, Tex.

Editing Report—J. Horace McFarland, Harrisburg, Pa.; J. C. Maloy, Rochester, N. Y.; George C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

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SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

OUR CALIFORNIA CONTEMPORARIES.

We have missed the visits of our San Francisco contemporaries since the great disaster which overtook the city. We are glad to learn recently from the *California Fruit Grower* that it will be continued, and that very shortly. A new office has been secured, and the lines of the business will be gradually picked up, and we hope that things will be running as smoothly as formerly in a very short time.

CULTIVATION OF THE MANGO.

In tropical Florida there is a well-defined and increasing interest in the cultivation of the mango. A few propagators are handling it. The difficulty thus far has been to propagate it with any degree of success. The various methods of grafting and budding are unsuccessful, and most of the stock is grown by in-arching, which naturally increases the cost of the plants very materially. A number of so-called fine varieties of India have been introduced, and are being propagated by men like Reasoner and others in the South, with a fair degree of rapidity, though really terribly slow when compared with the way in which we can multiply the northern fruits.

THE PRESERVATION OF NIAGARA.

Unstinted credit should be given the executive of the American Civic Association for their energetic, well-directed, patriotic effort for the preservation of Niagara Falls. That their campaign of education has already been productive of good results is unquestioned. A great awakening has occurred. The eye of the public has been directed towards this natural wonder, the American people are asserting themselves, and the water-grabbing companies are feeling that there are other things in this world besides the mere getting of money. Everything now points towards an international consideration of the question, which will result in placing the falls beyond the reach of the ruthless mercenary. This is everyone's affair. Write to your congressman and urge the necessity of Federal intervention.

CONGRESSIONAL FREE SEED DISTRIBUTION.

Notwithstanding the protests of seed associations and nursery associations, and all organizations interested in the trade side of seed growing, Congress has again repeated this fraud upon the people and this injustice to the florists, nurserymen and seedsmen. The item covering the expense was stricken out by the Committee on Agriculture, but was reinstated by the Senate, and passed by an overwhelming vote. Where the pressure comes from which justifies the vote of a congressman on this measure, it is hard to say. The worthless packages of seeds which in the past have gone the rounds, are certainly not sufficient inducement to the layman to urge his senator or representative to support the measure. Possibly public sentiment will shame the noble representative out of this parody on paternalism another season. But we may expect the prize packet to arrive again this year, though somewhat late.

COMMISSION MEN AID CALIFORNIA SUFFERERS.

The commission and produce men with their characteristic generosity and promptness, have taken a prominent part in aiding the San Francisco sufferers by sending contributions of money and produce. Chicago, San Francisco, Philadelphia, and Baltimore acted with commendable promptness as soon as the railroads signified their willingness to cooperate with those who desired to help the victims of the disaster. Philadelphia set the pace on cherry sales by purchasing a box of California cherries for $2,452. The fruit was sold singly, the first cherry bringing $105. Various others brought $100, and many $50 each.

INTEREST IN PECANS.

Our recent trip through the southern States impressed us with the idea that the pecan is to take a very important place in the pomology of that region, in the comparatively near future. Two facts contribute to this growing popularity. One is the fairly well-defined, though somewhat newly-acquired idea that the pecan has a much wider range of adaptation than that which we originally credited it with. Our friends of the Gulf States formerly believed that it was a native only of the rich bottom lands of that section; more than that, that it would be unhappy and uncomfortable anywhere else. Investigation and experience are dispelling that idea from the minds of careful observers. The pecan is invading northern Florida, southern Georgia, and central Georgia, orchards are being widely planted, and the industry promises to flourish in a way that surpasses the most sanguine imagination of its warmest adherent. Whether the planting of this nut is likely to be overdone or not, is another question. That phase we are not prepared to discuss.

GOOD WORK OF THE COMMITTEES.

A large attendance at the Dallas meeting is assured. At first there was some fear that the distance would cut out the attendance from the North and East, but, due largely to the efforts of the reception and program committees, interest and expectation have been kept properly keyed up, and at this time there is no fear whatever regarding the success of the convention from the standpoint of attendance. In our interchange of congratulations we should not forget the important part our Texas friends have taken in the preliminary and initiatory steps leading up to the convention. The committee on arrangements, led by Stanley Watson, have done their part generously and unremittingly, and we feel convinced that all who attend the convention will be repaid in terms of pleasure and information received. We hope that the influence of the climate is not such as will raise the thirst hinted at by the reception committee. This would prove disastrous to the beverage establishments of Dallas. We feel sure that the program itself will be worthy of the occasion, and that the incidental entertainment in the way of instruction and enjoyment provided will make the whole affair exceedingly pleasant.

A HINT TO EVAPORATORS OF APPLES.

German importers of American evaporated apples are calling attention to the excess of moisture which many brands of the American product contain. It is stated by the German importer that in order to keep well, the evaporated apple should not contain more than twenty per cent. of moisture, and that many samples of the imported article greatly exceed this amount. One of the principal importers of Hamburg, Germany, is requesting that American exporters pay more attention to this matter. It is not surprising that there is a tendency for manufacturers of evaporated fruit to strain this point (not the juice), because water is cheap, and every pound of water which can be sold represents clear gain.

THE SOUTHWEST FROM THE EASTERNER'S STANDPOINT.

The convention is not the only thing which should take the New Englander or New Yorker to Dallas. He should realize that this is one of the States in which important industrial developments, nearly all related to the land, are taking place. The nurseryman is interested in affairs much broader than the things he himself deals with. He is interested in the areas where great truck interests reside, he is interested in methods by which great vegetable crops are produced. He will see these things in Texas. The nurseryman is also interested in those sub-tropical crops not found in the East, crops which require peculiar surroundings and conditions. Rice may be mentioned as in this group. The Easterner may see great areas devoted to pecans, a pomological crop practically unknown in the Northeast, and a crop which is one of the coming and promising enterprises of the future. We do not mention peaches or plums, or the other staples of the East, but he may see them there in various stages of growth.

Aside from these things which interest him directly, are the great animal husbandry enterprises of the ranching type; the natural products, as petroleum, coal and iron; the wonderful stretches of prairie land; and finally, the creations of man as set forth in the handsome cities of Dallas and Galveston. All these things, aside from the convention, are sufficient to draw the enterprising, when an opportunity of this kind offers, to the great empire of the Southwest.

FREE SEEDS AND FREE LITERATURE.

The discussion arising out of the final passing of the seed appropriation bill, which has been so vigorously attacked by seedsmen, and so generally discredited by farmers has raised other questions of a more or less associated and allied character. Farmers, as well as business men, are weighing the advisability of the printing and distributing business the government is carrying on in the way of broad-casting bulletins on rural subjects. The original intention of this work was to disseminate the results of investigational work, not, we judge, to publish and scatter treatises on agricultural or horticultural practices. After all, the main criticism is not on the principle,

but on the method of distribution. Taxpayers claim, and rightfully enough, we believe, that great masses of this material go to the city representative, and are consigned by him to his attic or the garbage heap. Other quantities are distributed where it will do absolutely no good. It is a question, then, of selection of material and manner of distribution. We feel fairly certain that the enthusiasm of the young investigator and his belief in the results of his own work, have resulted in the publication of much material which would have improved, had it been given time to mature and ripen, by being set aside for a while, instead of being rushed into print immediately it was written up.

COVER CROPS IN NURSERY.

The nurseryman, by virtue of the crops he grows, is, or should be, an extensive cultivator. His problems are numerous, but, as in farming, the great and fundamental one, is how to maintain the fertility of the soil with minimum expenditure. The nurseryman's profits are more or less accurately measured by the percentage of salable trees he secures from his output of buds or grafts. The growth of these is dependent upon soil conditions, as determined by physical make-up and plant food content, influenced by climatic conditions. The nurseryman cannot change the climate, but he can modify the other two factors. The nurseryman's crops need deep soil and plenty of available fertility. Most of our soils contain a sufficient amount of mineral matter to promote reasonable growth, but the inconstant substance is the part which has most to do with giving the nurseryman a vigorous, well-grown, salable product. This is nitrogen. It is at once the most evanescent and the most expensive element of plant food. Speaking in general terms, the problem of providing fertility for any crop hinges on the problem of maintaining the supply of humus in the soil. This humus may be provided by using domestic fertilizers derived from vegetable foods, as stable manure, or any other partially decaying vegetable matter. In our opinion, it is most cheaply secured by growing a nitrogen-forming crop on the nursery land. We believe that in most cases nursery ground can be advantageously covered with a green crop in the fall, and that when this crop is turned under the following spring, we have our supply of humus and our potential supply of nitrogen. There is a prejudice among nurserymen against using crops of any kind between the nursery rows, and it is true that there are some objections on the score of expediency and convenience; but we believe that these objections are far outweighed by the benefits derived. Some of the best nursery stock we have seen during the past season was grown on land treated in this way. We believe in it as applied to farm practice, and are of the opinion that it is entirely feasible when applied to nursery practice. Let each nurseryman try it in a small way on some of the younger blocks next season. Crimson clover is the great cover crop in the Middle Atlantic, cow pea and beggar weed of the South. Mammoth clover is to be recommended for the northeast. Remember that an acre of good cover of mammoth clover, turned under in spring, may be expected to yield as much nitrogen as fifteen or twenty loads of stable manure. Is not the experiment worth trying?

ATTITUDE OF HORTICULTURAL ORGANIZATIONS TOWARDS THE NURSERY INTERESTS.

Many friends of horticulture think that cheap fruit trees would greatly promote horticultural development. That this is a mistaken notion, there is abundant argumentative proof. The men who are willing to pay a reasonable price for a good article, are the men who take care of it afterwards. The men who constantly hunt bargains are the ones who are occasionally "gold bricked," and who often neglect their investment.

Horticultural society officers and nurserymen should co-operate. Their interests are too nearly identical to be considered separately. That they do not always hold the same views is evidenced by the following communication which voices the sentiments of many growers of nursery stock.

In every state of the Union nurserymen have been among the best friends of the various horticultural societies, some of which are supported largely by state appropriations. Nurserymen have helped to encourage the work of these organizations, and have contributed of their means to maintain the various societies.

Sometimes, however, it would seem that this work on the part of nurserymen has been "love's labor lost," for it frequently happens that the very organizations they have helped to build up are used as a club to tear down the nursery business. Note how often leaders in the horticultural societies, who know nothing about the nursery business or nursery practices, make statements in regard to the nursery business which are not only misleading, but are downright demoralizing to legitimate trade. Everyone can recall misleading statements which have been made by these so-called horticultural dictators in regard to root-rot, crown-gall, San José scale, peach yellows, woolly aphis, etc. These damaging and untrue statements are refuted in time, of course, and the truth eventually becomes known, but not until the legitimate nurseryman has suffered the loss of much stock.

Another form of injury for which some of these horticultural leaders are responsible occurs nearly every year. It is a standing joke in the newspapers of the country that the peach crop is killed every spring. But it is not a joke to the nurseryman who has peach trees to sell to have some of these alarmists among leaders in horticultural societies issue official statements that the peach crop has been killed; that trees have been damaged, and that stock standing in nursery rows is affected with "black heart" and unfit for planting. A little later it may develop that the peach crop is not killed—in fact, it usually does develop this way—but not until after the season for selling peach trees has passed, and the nurseryman has burned thousands of first-class trees, the market for which was destroyed by these exaggerated statements of the alarmists.

As an example of still another form of hardship against which nurserymen have to contend, I may cite a circular by a prominent officer of a State Horticultural Society. This circular to growers advised them that they should be able to buy first-class 5 to 6 feet apple trees for $5 to $6 per hundred. Now, this man may be ever so good an officer of this society, yet his official position hardly entitles him to assume the position of fixing the price for nursery stock. He has established in the minds of growers a false impression, which is absolutely vicious in its effect upon the nursery trade, for trees such as he describes cannot be produced profitably for the price he names, except in some unusual case.

It would seem that the time of these gentlemen might be better employed in endeavoring to help fruit-growers to produce more and better crops, and to secure good prices for the same, rather than in trying to destroy the business of nurserymen, who have in every way possible encouraged the work of horticultural societies.

The interests of fruit growers should be protected, of course, by the horticultural societies and their officers—but so should the interests of the nurserymen. And the time has come to call a halt in the officiousness and misrepresentation of some of these persons. "The laborer is worthy of his hire," is not only scriptural, but it is good business policy. And it is not for persons clothed with a little authority in the horticultural societies, supported by public funds, to use their positions to misrepresent the business of legitimate nurserymen.

NURSERYMAN.

Correspondence.

UNFAVORABLE SPRING WEATHER.

EDITOR NATIONAL NURSERYMAN:

The season just about past has been the hardest one we have ever experienced. March spent about 4-5 of its time in giving the worst kind of winter weather. The fore part of April the ground was so wet that nothing could be done in the digging line; then it turned warm, and with the excessive moisture and extreme heat, everything began to bud out, and within three weeks it was impossible to dig almost anything out of the nursery and deliver in good shape.

This is the first season in the history of our business that we have been compelled to refuse orders on account of not being able to get the stock out.

Hoping to see a large turn-out at the convention,

H. J. WEBER & SONS NURSERY CO.

Nursery, Mo.

OKLAHOMA.

EDITOR NATIONAL NURSERYMAN:

We read your publication with much interest. Business has been very brisk with us this spring. There has never been a greater prospect for fruit in Oklahoma than at present time. The senior member of our firm is at present in New Mexico looking after orchard interests there.

Wishing THE NATIONAL NURSERYMAN all success possible for 1907,

Yours Truly,

Blackwell, Okla. J. W. TETIRICK & SON.

PEEK-A-BOO ENVELOPES BARRED IN CANADA.

EDITOR NATIONAL NURSERYMAN:

I do not know of anything that gives me more satisfaction at the present moment that the following item from *Printers Ink*, for if there was ever a "novelty" boosted upon a confiding public, "Peek-a-boo" envelope is certainly the limit.

The postal authorities of Great Britain and Canada have notified our postoffice that hereafter they will not deliver mail in the patent envelopes that have a transparent slip let in their fronts, through which the typewritten name and address are visible. Mail addressed to those countries in the "outlook" envelopes will be treated by the United States Postoffice as unmailable. The time necessary to decipher addresses on such letters is said to retard mails.—From *Printers Ink*.

The object of all progressive business men is to make their stationery, as well as their catalogs, artistic and attractive, but that "Peek-a-boo" envelope certainly detracts from and cheapens a letter.

The main argument advanced in its favor is that it is a "time saver;" but in my opinion, the time lost in folding a letter sheet or a bill so that the address will properly appear at the "window," is more than it would take to address a regular envelope. What is more attractive and business-like than a nice plain envelope with business card neatly printed in the corner?

At the last Nurserymen's Convention, I read a paper on office management, in which I took occasion to applaud the general improved appearance of the catalogs of nurserymen, and I have since regretted that I did not take a whack at this envelope.

I am very glad to see that very few nurserymen have adopted this style of envelope. It shows that they have an artistic eye, at any rate, even though it may cost them a few cents more a year, in point of labor, in addressing an envelope for each letter mailed.

In this connection, I have been very much interested in noting the general improved appearance of nurserymen's catalogs this year. Great strides have been made over the cheap-looking catalogs used in the past.

Dreshertown, Pa. THOMAS B. MEEHAN.

EDITOR NATIONAL NURSERYMAN:

The last number of THE NATIONAL NURSERYMAN was right up-to-date. You are certainly making good with this publication. I wish you all kinds of success.

With best wishes, I am,

Conn. C. R. BURR.

EDITOR NATIONAL NURSERYMAN:

We received the sample copies of THE NATIONAL NURSERYMAN, and were so much pleased with them that we enclose $1 for one year's subscription.

Tehuacana, Texas. WATKINS BROS.

GOOD OUTLOOK IN KANSAS.

EDITOR NATIONAL NURSERYMAN:

Our business the past year has been excellent. Sales have been very good, and collections better than we have known for some years. Wheat is standing well. Fruit prospects in Kansas are better this year than they have been for some time. We anticipate a heavy fall trade.

Mr. E. H. Balco visited old friends and acquaintances in the Flower City during May.

Lawrence, Kan. THE NATIONAL NURSERIES.

Catalogues Received.

Otto Katzenstein & Co., Atlanta, Ga. Catalogue of Trees and Shrub Seeds. Handsomely illustrated.

Elm City Nursery Co., New Haven, Conn. Price List Illustrated.

J. Van Lindley Nursery Co., Pomona, N. C. General Catalogue.

The Griffing Bros. Co., Jacksonville and Miami, Fla. Tree Catalogue.

Shatemuc Nurseries, Barrytown, N. Y. Catalogue of perennials and other plants for the garden border. Price List of native perennials for the wild garden.

Reasoner Bros., Royal Palm Nurseries, Oneco, Fla. Catalogue of native and exotic plants, trees and shrubs.

Huntsville Wholesale Nurseries, Huntsville, Ala. Bulletins No. 2, 3, 4, 5 and 6, surplus stock.

The Flansburgh & Potter Co., Leslie, Mich. Strawberry Plants.

Isaac Hicks & Son, Wesbury Sta., Nassau Co., N. Y. Trees for Long Island.

C. L. Whitney, Warren, O. Evergreen Seedlings.

Doings of Societies.

TENNESSEE NURSERYMEN AND HORTICULTURISTS.

J. C. HALE, PRESIDENT NEW SOCIETY.

The Tennessee State Horticultural Society met in Nashville on May 1st, with Professor Keffer, of the University of Tennessee, presiding, and Professor Geo. W. Martin, of Vanderbilt, secretary. The meeting was well attended, and an interesting program rendered, and the same officers elected for the ensuing year.

The Tennessee Nurserymen met with the Society, and on the 2d organized the Tennessee Nurserymen's Association, electing J. C. Hale, of Winchester, Tenn., president, and G. M. Bentley, Assistant State Entomologist, was elected secretary. A constitution and by-laws were adopted, a very interesting program rendered, after which the Association adjourned to meet next year with the State Horticultural Society.

GEORGIA PEACH GROWERS' ASSOCIATION FAVOR B. & O. RAILWAY.

This association met at Macon on the 12th of May. It discussed rates and distribution of fruit. The advance in prices of crates was also taken up, and some members were in favor of using baskets instead of crates, but no society measures were adopted.

A resolution was put through petitioning the Secretary of Agriculture for an appropriation of $25,000 to investigate the commercial possibility of exporting peaches. On the matter of routing of fruit eastward, the Association favored the Baltimore and Ohio Railway.

FLORIDIANS IN SESSION.

Florida horticulturists held an enthusiastic meeting at Jacksonville in the early part of May. Among the speakers were Ernst A. Bessey, pathologist in charge of the Florida sub-tropical station at Miami; P. H. Rolfs, director of the Florida Experiment Station in Lake City. The former discussed injurious fungi, and the latter spoke on vegetable growing. Officers elected: C. T. McCarthy, Eldred, President; E. O. Painter, Jacksonville, Secretary; W. S. Hart, Hawkes Point, Treasurer; E. S. Hubbard, Federal Point; George L. Taber, Glen St. Mary; W. G. Connor, Tangerine; Executive Committee.

OREGON.

At a Farmers' Institute held at Salem, Oregon, on March 9 and 10, the Oregon Nursery Company presented to each charter member of the Association two Franquette walnuts. This variety is one which is held in much esteem on the northwest Pacific Coast. The fruit is of large size and very uniform in quality. This nursery company has been making a specialty of walnuts, and presented an interesting exhibit of French varieties.

FRUIT HANDLERS.

Chicago Fruit and Vegetable Dealers' Association. This association met in Chicago on March 7, for their annual meeting, which was closed by the annual banquet. The officers are T. S. Ransford, President; L. R. Ermling, Vice-President; S. C. Schœneman, Treasurer; C. A. Butler, Secretary.

TEXAS TRUCK GROWERS.

The South Texas Fruit and Truck Growers' Association held a meeting on May first at Palecios. An interesting program was carried out by the assistance of the experiment station men and prominent fruit growers of the southern part of the State.

Quiz Column.

PROPAGATING LILACS.

EDITOR NATIONAL NURSERYMAN:

In your quiz column, one of your correspondents, answering an inquiry for the best stock on which to propagate lilacs, very properly replies that there is nothing as good as the California privet, in which I agree with him. But in describing the good qualities of the privet, he goes on to say that the "suckers" of the privet being so different in appearance from the lilac, renders their extermination easy for those who wish to cut them away. And in this too, I agree with him, excepting that I think he has made a mistake in using the word "sucker" for the one sprout. The privet does not "sucker," as the word is usually understood. The lilac suckers, throwing up a host of young plants from its roots or as stolons. The privet never does this. It *sprouts* from the stock, if there are eyes below ground, but does not sucker. And the fact that it does not sucker is one reason why its use has been recommended to those who object to the suckering lilac.

JOSEPH MEEHAN.

EVERGREENS FOR WIND-BREAKS.

What varieties of evergreen do you consider the best for a wind-break?

Which grows the fastest?

Does the scale affect them, if so, is it serious to them?

Yours truly,

New York. G. H. C.

Feb. 6, 1906.

There are three or four types of coniferous trees ordinarily classed as evergreens that are noted as rapid, vigorous growers and well suited for shelter-belt and wind-break purposes. Among the most desirable, on account of its vigor, health and rapidity of growth, is the Norway spruce. It makes a dense wind-break, is picturesque in outline and altogether desirable in that it is not attacked by fungous disease or any seriously injurious insects. Scotch pine and Austrian pine are also desirable trees on account of their rapid growth. They are foreigners, however, and are not equal to our own white pine as measured in terms of durability and beauty. The San José scale does not affect any of our conifers. I am of the opinion that wind-breaks should be used in this State much more freely than they are, especially along the unprotected aspects of Lake Ontario and the Niagara river section. DON.

OWN-ROOTED TREE.

Would peaches which sometimes strike root above the bud make better trees than those budded on other stocks?

Maryland. A. F.

Nurserymen have had considerable experience in the use of own-rooted trees. The Marianna plum grows readily from cuttings, some of the oriental pears strike freely from cuttings, while quince stocks are almost exclusively propagated in this manner. No experience which nurserymen or orchardists have gathered will justify the general statement that trees propagated in this way are better or longer lived than those produced by grafting and budding. There may be some special advantages, as in the case of the tree which is wanted for sections where root-killing is feared. Certainly hardy varieties of apples if on their own roots are safer in the Mississippi Valley states than those budded or grafted on seedlings of indefinite hardiness. In the case of the peach we cannot see where any advantage would accrue from this plan. If any nurseryman has had experience along these lines which he would like to offer, we shall be glad to give him space in these columns.

Delaware. H. W.

Note and Comment.

SECRETARY SHAW AS A TREE AGENT.

It is not generally known that the eminent Secretary of the Treasury supported himself while a college student by the interesting, instructive, and healthful occupation of a tree missionary, pursued during his summer vacations. Some of his experiences while in that pleasant vocation are set forth in the following interview which appeared in an Iowa paper not long since :

"During all but one of my vacations I sold nursery stock. It has been said that I dealt in trees, but trees were a small part of my business. I tried subscription books, but books are not like trees and plants ; are not so satisfactory to the fellow who sells them. Selling nursery stock did me more practical good than any other experience of my life. I traveled over 150 square miles of new country, in which there was scarcely a fruit tree or berry bush. I drove long distances from farm to farm and met many men. In two seasons I shipped $4,000 worth of trees and small fruits to Denison, the town in which I afterward lived and practiced law. I had competition, too. But I discovered that the better way is to give your opponent every good word to which he is entitled. It never pays to run the other fellow down. Praise him, and you indirectly recommend yourself and your commodities. Then if you are beaten, you maintain your own self-respect, for the victor, by your own testimony, is a decent and able man. I know a lawyer who thinks all of the other lawyers in the town where he lives are second rate pettifoggers, and he says so openly and boastingly. Nevertheless, those very same men beat him two-thirds of the time in the trial of cases. He sneers at them and they whip him, and so he sneers at himself, for the judgment of a community is based on results."

"Frequently a farmer would bring out a catalogue of a reputable nursery, in which the quoted price was a fifth lower than mine. That looked like a hopeless case. But I would show the farmer the orders I had taken from his neighbors and from persons living in the vicinity of the other nursery. You know what the Bible says about the prophets. Well, it is the same with nurseries. However, talking has little to do with selling. I accosted a man once and he said : 'You are too late. Another agent was here the other day. He was the smoothest chap I ever heard. He stayed to dinner and supper. I bought all I wanted of him.'

"'How much did you buy?'" I asked.

"'Seven dollars' worth.'

"'Well,' I said, 'I am not much of a talker, and I can't sell you anything if you are already supplied.' Nevertheless, I sold him $30 worth in the next twenty minutes."

"How did you do it?" I inquired.

"At another time my brother and I drove to a farm," Secretary Shaw continued, ignoring my question—"my brother was in the business, too, and we would meet every Saturday night and compare notes. He went to the house and in half an hour came out and said : 'That is the hardest case I ever have had.' I tackled the farmer and got a big order. How did I succeed? By getting the confidence of the customer. I have won more law-suits by my opening statements than in any other way. Opposition nursery agents would guarantee that everything would grow. I wouldn't. I impressed the man with whom I was talking with the reasonableness of what I said. If he wanted something that would not do well in his soil I told him so. Just the same, I was watchful concerning my own statements. I might say to a farmer : "Don't you think you ought to plant some currants?"

"'Yes,' he would say, 'I will take a few.'

"'Will 100 be enough?'

"Now, if I had not put the number at 100, he would have ordered two or three. I have seen plenty of such orders, but I never took any myself. I didn't expect to sell 100 currant bushes to one man. Accordingly, the farmers would say : 'Give me twenty-five, and next year I may buy more.'"

Fruit and Plant Notes.

HOOD RIVER APPLES.

The varieties of apples most popular in the Hood River Valley of Oregon at the present time, and consequently being the most largely planted, are Yellow Newton, Spitzenburg, Ortley, Arkansas Black, Wagener. Delicious, Jonathan, and Baldwin.

The fruit growers of Hood River region, Oregon, are reported to be reducing their area of strawberries and increasing the more stable and reliable apple area. The promise of the apple crop in the region is excellent. Spitzenburgs and Newton pippins bloomed heavily.

Strawberries began to move briskly from South Carolina the last week in April. Arkansas also began to send its quota of berries to the northern and eastern markets, and for a time in the last week in April, Saint Louis was more than full of berries.

TOP-GRAFTING KIEFFER PEARS.

Mr. S. D. Willard of Geneva, N. Y., is authority for the statement that Kieffer pears can be successfully top-worked with Bartlett, Winter Nelis, and Bosc. These trees were top-grafted five years ago, and have produced two crops of good fruit. Mr. Willard has also grafted Kieffer on Howell and Bartlett, and has secured satisfactory results from this combination. This is important news as many fruit growers are now looking for a profitable way to dispose of their sample Kieffers.

FRUIT PROSPECTS.

The reports from Colorado are encouraging. The Grand Junction people are optimistic and expect a full crop of varieties of fruits which characterize the region.

In Georgia the last frost which visited the country in the fore part of May undoubtedly did a good deal of damage. Probably the injury was more severe to early vegetables than to fruits which had set.

PLANT FOOD REQUIREMENTS OF BEARING FRUIT TREES.

The New York State Experiment Station has recently made an investigation of the food used by bearing fruit trees during one season's growth. This investigation included the apple, peach, pear, plum, and quince. The figures seem to show that "The relative proportions of the different plant-food constituents are approximately the same for the different varieties of fruit trees. This means that, under like conditions of soil fertility, a mixture of nitrogen, phosphoric acid, and potash which would meet the requirements of one variety would also meet the needs of the other varieties, so far as the supply of these plant-food constituents is concerned. What particular proportions are best adapted to meet the needs of any particular soil can be determined only by special experiment."

The amount of plant food taken from the soil per acre by the different crops and compared with wheat is shown in the following table :

Variety	No. of trees per acre.	Nitrogen, pounds	Phosphoric acid pounds	Potash.
Apple	35	51.5	14.0	55.0
Peach	120	74.5	18.0	72.0
Pear	120	29.5	7.0	33.0
Plum	120	29.5	8.5	38.0
Quince	240	45.5	15.5	57.0
Wheat	*20	39.5	12.0	16.2

*Bushels.

This demonstrates that the peach uses the largest amount of plant food. The pome fruits give results much alike. But all of the fruits use more food than will an acre of wheat yielding at the rate of 20 bushels of grain and a ton of straw. The moral is, therefore, that our acre of fruit trees should receive larger amounts of fertilizer than the same area of wheat. Yet the practice is in many sections to fertilize for wheat and let the fruit trees take care of themselves.

Died at Seneca, Kansas, on April 19, 1906, Samuel J. Baldwin. Deceased was a nurseryman and introducer of the Baldwin cherry.

Business Movements.

CHANGE IN PHOENIX COMPANY.

This well known organization has undergone an important change in the personnel of the company. The capital stock owned by Mr. Sidney Tuttle has been purchased by A. E. DeMange, who now becomes president, with Sidney Tuttle vice-president and W. E. Rossney secretary and treasurer. Mr. Tuttle has been connected with the business for twenty-four years, while Mr. Rossney, formerly of Rochester, has been associated with him for about the same length of time.

WISCONSIN CRANBERRY SELLING ASSOCIATION.

It is reported that the cranberry growers of Wisconsin have organized a company which will control about 90% of the cranberry crop of that State. The members of the association agree that they will not sell to anyone except through their own organization. The association is styled the Cranberry Sales Company. They have selected the A. U. Cheney, Company, DesMoines, Iowa, as selling agents.

COLORADO BEGINNERS.

Another nursery has been added to the Colorado collection by the incorporation of the Western Nursery Company at Delta, Col., on April 23rd. The incorporators are Elmer Young, president, H. E. Perkins, A. J. Vorse, Danial Cook, and J. S. Charlton. Milliard Fairland is secretary.

A NEW ONE FOR MAINE.

The Maine Nursery Company, with headquarters at Bangor, has recently been organized with a paid up capital of $25,000. President, F. L. Temple, Bucksport, Maine; Treasurer, Frank H. Damon, Bangor. The purpose of the company is to do a general nursery business and carry on a department of landscape gardening. Mr. F. L. Temple was formerly connected with the Shady Hill Nursery Company, of N. J.

CRANBERRIES IN WEST VIRGINIA.

A large cranberry company has been organized at Pemberton, W. Va., with a capital of $20,000, for the purpose of cultivating the sprightly cranberry. The incorporators are Thomas B. Crittenden, Fred Wingfield, and Wilbur Patriquin, all of Horton, W. Va.

A PROGRESSIVE FIRM.

One of the live progressive firms of the northwest Pacific Coast is the Oregon Nursery Company of Salem. This company has recently interested itself in nut culture. They are stimulating the planting of desirable varieties of nuts in the region of their nursery. Recently a planting fête was indulged in by the employees of the nursery company. This resulted in the planting of about 5,000 pounds of Franquette walnuts by the employees of the company. These walnuts were planted after ceremonies similar to those which are indulged in on Arbor Day. The whole affair aroused a great deal of interest in the possibilities of nut culture, and may pave the way for the planting of many walnut and other nut trees in that region. A banquet provided by the Oregon Nursery Company at the Willamet Hotel closed the proceedings. This type of advertising has an educational value aside from its promoting purposes.

MAHALEB STOCKS.

Cooper & Moncrief of the Winfield Nurseries, Kansas, are making a specialty of Mahaleb cherry stocks. This is one of the few firms that has been able to grow Cherry stocks successfully in this country.

BUSINESS INCREASING.

The amount of your freight business is a fair indication of the volume of your business. Stark Bros., Missouri, find that their account stands as follows:

12,180,000 lbs. of freight shipped season 1904-05.
14,326,000 lbs. shipped season 1905-06.

Our Book Table.

"A First Book of Farming." Charles L. Goodrich. 259 pages, freely illustrated. Published by Doubleday, Page & Co. Price, 75 cents.

This is one of the recent additions to the elementary pedagogics of agriculture. It covers the soil and the plant. It does not consider the other important factor of farm operations, the animal. The plant part is particularly well done. The illustrations, suggestions and experiments are pointed and appropriate, and I see no reason why this should not be an exceedingly useful little book in the grammar school and the lower grades of high school.

"The Garden That I Love." By Alfred Austin. 9″ x 6 1-2″. 146 pages. Illustrated in colors. Publishers, The MacMillan Co., New York. Price, $2.50.

In harmony in form and matter with "The Homes of Tennyson" is this volume, dedicated in fact to the present poet laureate of England. That Alfred Austin is a man of deeply sympathetic nature and keen artistic qualities is well known. The features of his garden as to material make-up, the arrangement from the aesthetic standpoint, and the sentiment expressed in the whole affair give one a much better estimate of the poetic qualities of the man than many of his poems themselves. The volume is a series of prose odes dedicated to certain plants and certain natural objects in the vicinity. Among the trees and plants especially dignified by particular description are the apple, the larkspur, the crimson rambler, the peony, the torch lily and the evening primrose. The book is a desirable addition to the nature study section of one's library.

AMONG THE EXPERIMENT STATION WORKERS.

Bulletin 107, Colorado Experiment Station. The mildew of the peach seems to be a disease of some importance in the Colorado fruit growing sections. This bulletin is devoted to a discussion of the subject and shows how the disease may be held in check.

Bulletin 105, Maryland Experiment Station. This is devoted to the fumigating of nursery stock and contains very useful directions to the nurseryman.

GOOD ADVICE FROM A MARYLAND NURSERYMAN.

ATTEND THE DALLAS CONVENTION.

The following excellent piece of advice from our friend, Orlando Harrison, is offered to the nursery fraternity in the spirit in which it is presented, and with the hope that it will be effective in stimulating a large attendance. There are few men who are busier than the writer of this note, yet he is the one man who finds the time to attend to public affairs in addition to conducting his own business in a thoroughly up-to-date and systematic manner.

"Now that every Nurseryman has had a good business for the past year, throw off the yoke and go South in the sunshine and see what has been done. It is our duty to see what the other fellow is doing, in order that we may accomplish more. I have never seen the time when I was not needed at home, and I have never seen the time when I left home that I did not learn some new ideas. All of them were not profitable, but the practical disappointment did not keep me guessing, I simply knew I was wrong from actual experience. How many business men in this country have succeeded by staying at home? A small per cent. A much larger per cent. has succeeded by moving and trying to do something.

I remember quite well only a few years ago when we went West and saw the fields of trees. I returned home and reported to my father and brother that we would extend our planting and try at least to keep abreast, or we would go at some other business. Now, our friend Watson has told us of Macadam roads, de-horned cattle, wonderful peach orchards, their cotton and ladies; now I expect to go and see, and I would like to meet, for one, every nurseryman south of the Mason and Dixon line, and see if they will mix with tne Middle, Eastern and Western men. We expect to get a souvenir of the long-horned cattle that were grown there years ago, and view the improved pedigreed stock described by Mr. Watson.

We are off for Dallas in June, and we want you to meet us in Chattanooga in August." ORLANDO HARRISON.

THE HEADING OF NURSERY TREES.

LOWER HEADS AS A RULE.

About a year ago we presented a symposium of opinion and practice on this important subject. Since that time we have been favored with valuable suggestions by leading firms, representing widely differing conditions. We have pleasure in presenting these, believing that the subject is of such public interest as to abundantly warrant a partial reconsideration. Practices change from time to time, anyhow. In order to keep abreast of the period, all subjects need frequent revision.

IN MARYLAND.

There seems to be an increasing demand for low top trees, especially by the large planters, in apple and peach, but particularly in peach. We are heading our trees lower than in years past, as we have customers in Western Maryland, West Virginia and Old Virginia who require low top trees. Customers in New York State and in New England head prefer stock from three to three and one half feet.

J. G. HARRISON & SONS.

Berlin, Md.

REMARKS FROM MISSOURI.

Western planters have found out that low headed trees are preferable; they are more exempt from sunscald. Orchardists also begin to realize that it is of value to head low, not only economical in picking fruit but the bearing surface is increased.

However there can be no set rule. We aim to teach our propagators to use judgment and we top to suit the particular variety. Ingram for instance is headed much lower than any other sort. In pear, Bartlett should be headed very low to avoid weak bodies. Each variety must be studied and trained to make and develop a perfect tree of the variety.

STARK BRO'S NURSERIES & ORCHARDS CO.

Louisiana, Mo.

IOWA—LOW HEADS TO PREVENT SCALDING.

Low headed Orchard trees have had the preference in the West for several years from the fact that they do not sun scald as badly as those with high heads. It is also much easier to gather apples from the low heads than the high heads. I don't know that we are heading our trees any lower than we used to.

With us the demand in the West is always for low headed trees. I do not know whether this is the case East or not. I think probably that the eastern people rather prefer them headed higher than the Western planter.

D. S. LAKE.

Shenandoah, Iowa.

NEBRASKA—LOW HEADS FOR NORTH-WEST—HIGHER IN EAST.

In regard to low headed trees, we observe that in certain sections of the country, notably in Nebraska and the Dakotas, some prefer low headed trees, but we do not grow as many low headed trees as we did a number of years ago, a medium height of trees seems to have taken the place of the extreme low headed ones, and the eastern trade demands quite a high head on the tree. Our trade is largely east of Nebraska, and we grow trees to suit the demand. The only argument advanced in favor of the low headed tree, which in a measure holds good in a prairie country, is that the limbs protect the body from the direct rays of the sun, preventing sun-scald, which injures so many of our trees here in the West, unless they are protected by wrapping or some other artificial means. For our own planting we prefer a medium height of head, say in the neighborhood of two feet (which of course is low in the east) and we protect the stem with corn-stalks, rather than have limbs low enough to protect it from sun-scald; otherwise in later years it will be necessary to remove the lower limbs or the fruit will oftentimes be on the ground.

YOUNGERS & CO.

Geneva, Neb.

WESTERN NEW YORK.

We are not heading trees any lower than we did two, five or even ten years ago. We have always believed in rather a low headed tree. One advantage is that the fruit is nearer the ground and is not so much affected by high wind. We understand too, that in some sections like Colorado and Minnesota, a low headed tree is almost necessary in order to protect the bark of the trunk from sun-scald.

Rochester, N. Y. BROWN BROTHERS COMPANY.

It is recorded in a recent issue of *Park and Cemetery* that Mr. and Mrs. Charles W. Garfield, of Grand Rapids, together with Mrs. N. A. Fletcher, have presented this Michigan city with a 25-acre tract of land, valued at $30,000, for a public park. A prominent western landscape architect has offered his services *gratis* for designing and improving the area.

The floricultural papers devoted a good deal of space in their late April issues to the San Francisco catastrophe. The members of the Florists' Association in San Francisco and members of the craft generally were the recipients of hearty sympathy from the hands of their friends in the East. Mr. J. C. Vaughan of Chicago was on the Pacific Coast at the time of the earthquake, but was out of the zone of serious disturbance.

We note the disappearance from our desk of our contemporary San Francisco fruit journals, and sincerely hope that we can welcome their return at an early date.

Mr. S. D. Dorrance, formerly of the Mount Pleasant Press, J. Horace McFarland Company, Harrisburgh, Pa., is now manager of the advertising department of La Hacienda, an illustrated periodical relating to sub-tropical crops, published in Buffalo, New York, in the Spanish language. We call attention to their beautiful insert in this issue.

A GREAT TRUCKING BUSINESS.

CABBAGE SEED SOWN BY THE TON.

One of the most extensive trucking businesses of the country is that managed by W. C. Geraty, of Young's Island, S. C. Mr. Geraty has been growing plants for thirty-eight years, and is the originator of the trucking business on the South Carolina sea coast. His leading line is the growing of cabbage plants, and an idea of the extent of the business may be obtained by saying that last season he sowed more than a ton of cabbage seed, and this ton covered about sixty acres of land occupied by cabbage plant seed beds. We ordinarily regard sixty acres as a fair sized cabbage patch, when planted for harvesting purposes, but sixty acres of seed beds makes us stop and think once or twice before we can properly size up the situation! He ships cabbage plants in car lots as fas west as eastern Iowa, and practically covers the whole eastern country.

Mr. Geraty's business is not confined to cabbage plants, for sweet potato plants, tomato, egg plants, and pepper plants are grown by him in great quantity as well. His fruit tree and strawberry plant department is also an important division of his extensive business. Young's Island and the region south of Charleston have become deservedly famous as great vegetable-producing centers.

EDITOR, NATIONAL NURSERYMAN,
Rochester, N. Y.

Am just in receipt of a telegram from F. A. Weber, of St. Louis, stating that they have arranged with the Terminal Hotel as headquarters for the nurserymen for Monday, June 11. The Terminal Hotel being situated in the Union Station will be a very convenient place for us to meet, check our baggage, etc., and take supper if we wish before starting for Dallas. E. ALBERTSON.

Editorial Rambles.

III.

THE EXTREME SOUTH.

The visitor to Jacksonville is impressed with the fact that he is on the borders of the sub-tropical region by the presence of the palmetto trees in park and boulevard. The Texas umbrella tree is one of the appreciated shade trees in the middle South. At Jacksonville, towards the end of March, we found many of the winter tourists, who had spent the vacation at points further south, lingering a few days, or, on their way directly northward.

From this point we made a run down the East Coast Railway to Miami. One of the things that strikes the newcomer is the remarkable character of the soil, and in dignifying the land in South Florida by this name it is purely a matter of courtesy. The grape fruit trees, which are being planted very extensively in south Florida, are set in holes prepared by blasting out an excavation in the coral rock. The coral lime stone is soft and breaks very readily, and when mixed with a little surface vegetable matter and humus seems capable of producing a healthy, vigorous, fruit-producing tree. At Miami one feels on the edge of the tropical belt. A little way south at Cocoanut Grove, where the shores are fringed with this picturesque West Indian Palm, tropical vegetation is more pronounced. The "hammock" lands are characterized by hard woods peculiar to the West Indies, while the "piney" lands have the typical turpentine bearing pine. Down at Cocoanut Grove there is quite a northern settlement, many of them specially interested in fruit growing. Among the fruits, one finds the sapodilla, the mango in variety—and in passing it should be said that a great deal of interest is manifested just now in the cultivation of this fruit—the alligator pear, the Surinam cherry, (Eugenia) carissa and other things that are more or less distinctly tropical. Here, too, one finds the beginnings of interest in lime culture, although the lime is more at home and more successful on the Keys.

Under the direction of Dr. John Gifford, formerly of the College of Forestry of Cornell University, we made an interesting tour of the Key region, and were greatly instructed as to the horticultural possibilities and climatic conditions of this region. It is at Cocoanut Grove, or near there, that the Bureau of Plant Industry has established a sub-tropical experiment station and laboratory. This is in charge of Dr. Ernst Bessey, who is deeply interested in his work and who is developing a most instructive and promising line of experimental investigation.

The East coast of Florida is the great tourist resort. It has been made so by the efforts of the Flagler Railway enterprises. One of the great things now attracting public attention in that region is the extension of the East Coast Railway from Miami across the islands composing the Keys, merely a succession of coral reefs, to Key West. The project is to connect the mainland with Cuba by means of a transport service from Key West to Havana, which will carry trains across the intervening water and connect them with the Van Horne Railway system on the Island of Cuba. By this means passengers can go in Pullmans from New York to Santiago without change. The freight service will be greatly expedited and the whole scheme promises big things for the tropical end of Florida.

On the west coast a little way below Tampa, the great tobacco manufacturing town of Florida, and one of the bustling, flourishing cities of the State, is located the tropical nursery of Reasoner Brothers. This is a localized orange district where one may see blocks of large well-developed orange and grape fruit trees in one of the safest orange producing centers in the State. The nursery of Reasoner Brothers is exceptionally interesting for the reason that here you see the tropical fruits growing under practically outdoor conditions. Aside from a small area under glass, the tenderer tropical fruits are grown under sheds which filter the bright sunlight, lowering the temperature in summer and affording means of raising the temperature in winter. This is the emporium for the tropical fruits and plants which are used in greenhouse and lawn in the warmer sections of the South, as well as the purely tropical regions of the West Indies. The business connections of Reasoner Brothers are wide, and large shipments are made to Spanish America as well as the British West Indies. North of Tampa the tourist may visit some of the most important vegetable districts in Florida, and early in April the last of the celery shipments were being made, the first consignments of tomatoes going north, and many cars of cabbage finding their way to the distributing points in the northeast.

Summing up our impressions of the business status and general industrial outlook in the South, it is quite fair to say that this region appears now to be entering on an era of substantial growth and development. There is more capital coming in and a steadier rise in values of farm lands than has before occurred. There is no boom on, but a gradual appreciation in value of timbered and cleared lands. The idea of a winter home in Florida and a summer home in the East appeals with much force to many people who appreciate the restful influence of a climatic change.

The writer gladly acknowledges the courtesies received from the principal railroads which traverse this region. The East Coast Railway, the Seaboard Air Line, Atlantic Coast Railway, Louisville & Nashville, and Southern Railway were most anxious to afford us the best facilities for seeing the natural resources of the country, and the opportunities provided were very fully taken advantage of.

FROM ROCHESTER TO DALLAS, TEXAS, WITHOUT CHANGE.

A SPECIAL CAR FOR ROCHESTER NURSERYMEN.

On Wednesday evening, May 17th, Mr. Albertson of Bridgeport, Indiana, President of the American Association of Nurserymen, presided at a meeting held by the Rochester Nurserymen. The question was to decide the route which should be taken by the nurserymen from St. Louis to Dallas, Texas, at their coming convention.

Mr. Albertson brought with him E. D. Courtney, District Passenger and Immigration Agent of the Missouri, Kansas & Texas R. R., at Indianapolis, also Mr. W. F. Crawford, District Passenger Agent of the 'Frisco Route at Buffalo, N. Y., to present the advantages of their respective lines. After hearing the two railroad representatives, it was decided to patronize the Missouri, Kansas & Texas Route. Mr. Courtney's argument was convincing and he closed by showing that it is not so much what you do as how you do it. He stated that during the year 1905 the railways of the United States carried 22,830,000,000 passengers a distance of one mile, and during that period there were 455 passengers killed in railroad accidents.

"It is very gratifying to be able to say that none of these casualties occurred on the Missouri, Kansas & Texas Railway. Further than this, the M. K. & T. R'y has the enviable distinction of never having had an accident in which a passenger has been killed while on the company's trains. Neither is there any record of a passenger dying from injuries sustained while riding in any of the company's cars.

This is a record to which we can justly point with pride, and will be accepted by the traveling public as an evidence not only of the superior character of the track and equipment, but of the care in operation."

It is the desire of President Albertson to have all the eastern delegation meet at St. Louis and make up a special train of nurserymen which will be personally conducted by Mr. Courtney, and judging by what little we saw of him in Rochester, the party will be well taken care of.

Nurserymen from Rochester will have a special Pullman sleeper through to Dallas without change; it will leave Rochester Sunday evening, June 10th at 10 o'clock, via New York Central, Lake Shore and Big Four Railroad, arriving at St. Louis Monday, June 11th at 5 p. m., leaving St. Louis Monday night at 8:30, arriving at Dallas at 7:20 Tuesday evening.

Those going from New York State to St. Louis via Wabash Railway will leave Buffalo 8:30 in the evening, arriving at St. Louis at 2 p. m.

Those wishing to join the Rochester delegation in the through car should send in their order for reservation at once to C. L. Yates, business manager of the NATIONAL NURSERYMAN. The Rochester sleeper will be the only car running through from starting point to Dallas without change.

LATEST BY WIRE.

Special to NATIONAL NURSERYMEN, Rochester, N. Y.

Texas Committees met railroad and Dallas representatives and completed convention arrangements everything favorable.

JNO. S. KERR.

HOW TO REACH DALLAS.

LATEST INFORMATION.

EDITOR NATIONAL NURSERYMAN:

Dear Sir:

Believing that it would be the most convenient for the largest number of our members, The Missouri, Kansas & Texas Railroad has been chosen as the official route from St. Louis to Dallas, Texas, for the meeting of the American Association of Nurserymen; and that the trip may be as pleasant as possible, the following schedule has been arranged: Leave St. Louis, Monday evening, June 11th, about 8:30 o'clock. Breakfast at Parsons, Kansas, Tuesday morning (here we will be joined by members from the West, who meet in Kansas City, Monday evening, leaving there about 11 o'clock Monday night). Dinner will be served at South McAlester, Indian Territory (where we hope to be joined by the Southern members who go by Memphis, Tenn.), and we will be due to arrive in Dallas, Texas, about 6 o'clock in the evening.

Parties going by St. Louis should arrange to reach St. Louis by 7 o'clock p. m., Monday the 11th.

FROM ROCHESTER.

For those who find it convenient to go from Rochester, New York, a special car will leave Rochester Sunday night, June 10th, about 10 o'clock, which will be run by the New York Central, Lake Shore and Big Four, through Buffalo, Cleveland and Indianapolis to St. Louis, reaching there about 5 o'clock p. m., Monday, the 11th.

FROM THE SOUTH.

Southern members could doubtless add to the pleasure of their trip by arranging to meet in Nashville, Tenn., and go in party by Memphis, joining the St. Louis train at South McAlester, Indian Territory.

It is hoped that all will arrange to use above schedule so that we may all be together and have a good visit and social time throughout the entire trip; and if, as is hoped, we have 100 or more out of St. Louis, there will be provided a special train for us, which will be run through to Dallas on fast time, stopping only for meals and for members to join our party.

There will be thirty or more in the Rochester company, and we hope by the time we all get together to St. Louis that we may have 125. Members coming through, or from Chicago, can leave there about 11 or 12 o'clock, Monday and reach St. Louis in time. The Rochester company pass through Cleveland, Ohio, about 3 o'clock, and Indianapolis, Ind., at noon Monday, the 11th.

RATES—PARTY TICKETS ADVISED.

Now, as to rates, on account of the short time allowed on tickets sold under the certificate plan, it has been thought best not to try to use them this year, but in place of that members can use mileage to St. Louis, or where there are ten or more in a company, they can buy party tickets at mileage book rate to St. Louis, Memphis, Kansas City, etc. At St. Louis, Memphis and Kansas City round-trip tickets will be furnished on the basis of a $20 rate to Dallas or Houston, and we would advise all members to buy the $20 Houston ticket, which will be good for thirty days, and those not wanting to go to Houston can have their tickets validated at Dallas for return. The cost of the ticket to Houston being the same as to Dallas from St. Louis, we would advise you to buy that ticket, and you will have it to use if you want it; and we expect to have a delightful trip of three days to Houston, Galveston and San Antonio; the Houston trip costing nothing extra, and the San Antonio trip only $3, and the Galveston trip only $1 extra. On the return trip from Dallas you will have the opportunity of changing your route so as to pass through Oklahoma City, Kansas City, stopping at these points as well as other places, for any side trips you may want to make within the thirty-day limit of ticket.

To those who have not secured their berths through from starting point, but who want to secure them from St. Louis to Dallas, we would suggest that you notify me at once how many berths you want, and send $4 per berth for Pullman and $2 per berth for tourist cars to cover same, and I will have same reserved for you. The regular rate for berths from St. Louis to Dallas is $5 for Pullman and $2.50 for tourist cars, but we hope by having your applications in early we can make a car load, and thus be able to charter the cars so as to make a saving of $1 or more per berth on the Pullman, and fifty cents or more on the tourist cars. Of course, applications will be filed as received, and this saving can only be made to those who get in early with applications and secure berths in the full cars. If there are enough wanting the tourist cars to warrant it, one or more will be furnished.

Do not put this off *too long*. We do not want any to be disappointed.

Parties on their return trip from St. Louis, using mileage, can, of course, use any time they wish and stop at any point, an advantage you would not have on other tickets.

If there are any who want further information concerning other routes, etc., write me, and I will be glad to give you the fullest possible particulars.

E. ALBERTSON,

Bridgeport, Ind.

HOME COMERS WEEK, GENEVA, NEW YORK.

NURSERYMEN PROMINENT.

The week ending May 19th was devoted in Geneva, N. Y., to a celebration, organized for the purpose of bringing before the public the individuals and factors which aided in the development of the town and locality. A feature of one of the evening performances was an illustrated address in which attention was drawn to the important part that nurserymen and tree growers had in the building up of the substantial industries of the city. The photographs of the pioneer nurserymen were thrown upon the screen. Among these were the late Mr Patty, the Smiths, and Maxwell Brothers, S. D. Willard, Mr. Hammond, McHenry, Messrs. Chase, W. L. McKay, and many others. A recital of the early history of the city of Geneva revealed the fact that nurserymen more than any other class of industrialists have been responsible for the present wealth and culture which marks this distinguished educational center.

DIRECTORY OF TEXAS NURSERYMEN.

Adams, H. J., Schertz, Texas.

Adams, B. L., Bonham, Texas. Proprietor Bonham Nurseries. Complete line of nursery stock.

Allen, Joe D., Belton, Texas. R. F. D. No. 4

Alvin Fruit & Nursery Co., Algoa, Texas.

Arthur Bros., Saltillo, Texas.

Austin, J. W., Pilot Point, Texas.

Baker Bros., Ft. Worth, Texas.

Baker & Ray, Granbury, Texas.

Barrows, E. N., Weatherford, Texas.

Bassett, A. S. & Son, Gainesville, Texas.

Bayless, S. A., Denton, Texas.

Beeson, C. W., Alvin, Texas.

Bentley, W. D., Thornberry, Texas.

Black, M. G., Mt. Pleasant, Texas.

Bogan, H. S., Mineola, Texas.

Boone, S. L., Lockney, Texas. Specialties. Trees and shrubs adapted to northwest Texas.

Borin, Will, Tyler, Texas.

Bostick, W. L., Tyler, Texas.

Boyd, J. S., Cleburne, Texas.

Bowyer, Geo. J., Gonzales, Texas. Proprietor of the Gonzales Nursery and Greenhouses. Wholesale and retail grower. Full line of nursery stock and greenhouse material.

Bradley, A. K., Tioga, Texas.

Breland, D. C., Bedias, Texas.

Brill, Jno. F., Grapeland, Texas.

Brown, G. Y., Cedarville, Texas.

Brown, W. A., Ector, Texas.

Cain, M. N., Tyler, Texas.

Cannon, A. N., Euless, Texas.

Carlton, T., Mt. Selman, Texas.

Caruth, R. E., Comanche, Texas.

Central Texas Nursery Co., Cameron, Texas.

The Chandler Nursery Company, Chandler, Texas. W. K. Eastes, secretary, Charles E. Johnson, president, J. Perry, general manager. Introducer of new varieties of fruits.

Chestnut, J. T., Keene, Texas. General line stock.

Clark, Amasa, Bandera, Texas. Full assortment nursery stock.

Clark, H. L., Paris, Texas.

Clark, J. R., Glenrose, Texas.

Cole, W. R., Dallas, Texas.

Coleman, W. H., Athens, Texas.

Crosby, Albert, Lindale, Texas.

Curry, J. P., Lindale, Texas.

Dallas Nursery Co., 141 Sanger St., Dallas, Texas.

Dalmont, L. M., Prop., Hale Center, Texas.

Dorrety & Son, Denton, Texas.

Dorrig, J., Dickenson, Texas.

Downing, J. L., Wichita Falls, Texas. Specialty: The peach. General assortment of nursery stock.

Drumm, S. & Fl. Co., Ft. Worth, Texas.

Eagleton, G. W., Ladonia, Texas.

Eaton, Joel, Arp, Texas.

Farmer & Co., Rockdale, Texas.

Ferrell, R. L., Gallatin, Texas.

Ford, D. W., Madisonville, Texas.

Ford, S. R., Tyler, Texas. R. F. D. No. 4

Foster, John L., Tyler, Texas. Proprietor Fruit Nurseries. Introducing Yellow Jewell peach.

Garner, D., Dripping Springs, Texas.

Garnett, R. B., Hitchcock, Texas.

Graham, Geo., Cleburne, Texas.

Green Floral & Nursery Co., Dallas, Texas. (General Flower & Plant Business.)

Guinn, H. G., Rusk, Texas.

Haly, L., Baird, Texas.

Hamilton Nursery Co., Hamilton, Texas.

Hamlett, J. W., Alvin, Texas.

Hancock, Tyre, Dallas, Texas.

Hegele, W. G., Beaumont, Texas.

Henderson, E. M., Athens, Texas.

Hereford Nursery, Hereford, Texas.

Higginbotham, J. W., Dublin, Texas.

Hoffman, R. H., Denton, Texas.

Houser P. & Son, San Antonio, Texas.

Howell, J. M. & Sons, Weatherford, Texas.

Holbert, R. W., Arcadia, Texas. Proprietor Holbert's Fig Nurseries. Figs and oranges, specialties, shrubs and ornamental trees, side lines.

Holloway Seed and Floral Company, Dallas, Texas. R. C. Bryant, president and treasurer, C. W. Robinson, secretary. Seedsmen and florists.

Hudnall, M. B., Tyler, Texas.

Hubbard, Tom, Jackson, Texas.

Hudspeth, Ed., Mt. Pleasant, Texas.

Huguly, L. H., Keene, Texas.

Hunter, Albert, Dripping Springs, Texas.

Iron, J. D., Clyde, Texas.

Johnson, J. R., Comanche, Texas.

Johnson Nursery & Or. Co., Dallas, Texas.

Jones, E. L., San Angelo, Texas.

Kerr, John S., Sherman, Texas.

Kirkpatrick, E. W., McKinney, Texas.

Kirtley, C. C., Cameron, Texas.

Knox, Edward W., San Antonio, Texas.

Knox, M. N. & Son, San Antonio, Texas. Specialties in palms, roses, ornamental trees, and evergreens.

Lasater, J. L., Henrietta, Texas.

Leyendecker, J. F., Frelsburg, Texas.

Livingston, Mrs. E., Nacogdoches, Texas.

Lomas, Wm., Dallas, Texas.

Mally, Fred W., Garrison, Texas.

McKee, G. A. & Sons, Mount Selman, Texas. Proprietors Evergreen Nurseries, established 1867. General line of nursery stock, specializing in budded roses.

McKee, S. R., Mt. Selman, Texas.

McKnight, W. H., Dublin, Texas. Specialties: Trees and plants adapted to Texas conditions.

McMicken, E., Woodville, Texas.

McNett, E. A., Bangs, Texas.

Meek, T. E., Chico, Texas.

Miller, Fernando, Lampasas, Texas.

Miller, Webster, San Saba, Texas.

Mims, Ed. W., Tyler, Texas.

Moore, J. M. & Son, Arlington, Texas.

Mooney, G., Shirley, Texas.

Moss, T. H., Hico, Texas.

Mosty, L. A., Kerrville, Texas.

Mountain Creek Nurseries, Alvarado, Texas.

Muncy, D. J., Floydada, Texas.

Munson, T. V., Denison, Texas. (Grapes, Plums, Plant breeder.)

Murray, W. A. T., Myrtle Springs, Texas. Manager Myrtle Springs Nursery, Orchard & Canning Company. Wholesale and retail growers of fruit trees in which they are specialists.

Naylor, R. L., Midlothian, Texas.

Orr, C. P., Arp, Texas.

Perry, J. A., Chandler, Texas.

Perkins, W. H., McKinney, Texas.

Peton, Frank, Arp, Texas.
Phillips, O. K. & Bros., Rockdale, Texas.
Pierce, John, Lindale, Texas. R. F. D. No. 3.
Pirtle, N. T., Tyler, Texas.
Pittman, W. H., Lindale, Texas.
Porter, F. O., Lott, Texas.
Ragland, A. M., Pilot Point, Texas.
Rains, Jno., Rockdale, Texas.
Ramsey, F. T., Austin, Texas. Proprietor The Austin Nursery. A veteran in the nursery business. Large grower fruit trees. Introducer Gonzales and Happiness plums.
Reeves Nursery Co., El Campo, Texas.
Risien, E. E., San Saba, Texas.
Roach & Howenton, Sulphur Springs, Texas.
Robinson, M. A., Lindale, Texas.
Shackleford, W. S., Omen, Texas.
Schattenberg, A. C., Garrison, Texas.
Schattenburgh, G. A., Boerne, Texas.
Shamburger, M. S., Tyler, Texas.
Schuman, Walter, San Antonio, Texas.
Sheffer, F. G., Corpus Christi, Texas.
Shell Bros., Georgetown, Texas.
Short, J. Y., Denton, Texas.
Smith Nursery Co., Tyler, Texas.
Sneed, J. F., Tyler, Texas. (Peaches; Specialties.)
Spencer, Jno. & Son, Decatur, Texas.
Stallings, J. N., Terrell, Texas.
Stillwell, H. G., Brownsville, Texas.
Stoker, E. E., Lancaster, Texas.
Stone, E. E., Dickenson, Texas.
Strayhorn, H. G., Tyler, Texas.
Stephens, C. E., Denison, Texas. Proprietor of the Stephen Nurseries. Established 1878, conducting a wholesale and retail business.
Stockwell, E. S. & Son, Alvin, Texas.
Stubenrauch, J., Mexia, Texas.
Tackett, J. W. & Sons, Weatherford, Texas. Proprietors Western Home Nursery, established 1885, doing a general wholesale and retail business.
Texas Nursery Co., Sherman, Texas.
Thompson, J. M., Waco, Texas.
Thompson, S. D., Bowie, Texas.
Vankirk, A. S., Bonham, Texas.
Walters, Harry, Abilene, Texas.
Ward, C. F., Arlington, Texas.
Watkins Bros., Tehuacana, Texas.
Watson, Stanley, Houston, Texas. (The only original.)
Waxahachie Nursery Company, Waxahachie, Texas. General nursery stock; company recently incorporated.
Werner & Steinbring, New Braunfels, Texas.
White, A. C., Tyler, Texas.
Wilson, J. N., Clyde, Texas.
Wood, W. W., Mt. Pleasant, Texas.
Woodruff, T. M., Keene, Texas.
Woods, G. C., Center Point, Texas.
Young, W. J., Myrtle Springs, Texas.
Yates, W. A., Brenham, Texas. Specialties: Grafted roses on non-suckering stocks.

Editor NATIONAL NURSERYMAN,
Rochester, N. Y.

I am just in receipt of a letter from Prof. A. F. Burgess, of Ohio, in regard to the relation between the Entomologist and the Nurseryman as it relates to insect pests, etc. At a meeting of the American Association of Economic Entomologists at New Orleans in December, 1905, a committee of five members was appointed to consider this matter and report at their next meeting. From this committee a subcommittee was appointed to consider the matter further, and it is their desire to secure the opinion of Entomologists, Horticulturists, Inspectors and Nurserymen concerning National control of injurious pests, uniform regulation covering the certification and transportation of nursery stock as it has an intimate relation to the control of these pests, and on account of the many differences in the present state regulations, it has been alloted to this sub-committee, consisting of Professors Forbes, of Illinois, Gillette, of Colorado and Burgess, of Ohio, to secure these opinions and to consider the remodeling of the present conditions of nursery inspection, and if possible, to outline a rational system requiring every reasonable precaution to prevent the spread of dangerous pests on nursery stock, and yet it will not cause interruption of shipments and great loss to nurserymen.

I hope that our members may think over this matter and be prepared when we get together at Dallas to give it due consideration, and that action may be taken that may help in securing co-operation and ultimately uniformity of laws and the use of the universal tag.

This is not all of the letter, but guess a fair idea of what it is.

Yours truly,
EMERY ALBERTSON.

P. S.—Mr. Weber will be on hand at the Terminal Hotel early Monday morning, June 11, to give members any instruction that may be wanted and to do what he can in making their stop there Monday as pleasant as possible. Should any wish to visit Shaw's Gardens arrangements will be made for their admission into same.—E. A.

1,000,000 JUNE BUDDED PEACH

Elberta, Carman, Salway, Bell of Georgia, Waddell, Hiley, Greensboro. Also General Line of Nursery Stock at wholesale. Write for prices.

SOUTHERN NURSERY CO., WINCHESTER, TENN.

"PEACH SEED"

(ESTABLISHED 1859)

Having been engaged in the business for almost a half-century, we refer with pride to all of the older and larger Nursery firms whom we have written testimonial, as to our reliability for honest and square dealing.

We will be better prepared than ever the coming season to fill orders for all classes of Peach Seed coming from Virginia, Tennessee, North Carolina or any of the sections producing the Wild Natural Mountain grown seed. We take pains to get the lowest rate of freight to all points, and, in order to save freight, make up car loads to different buyers in any large Nursery section (like Rochester) at a saving, sometimes, of from 40 to 50 per cent. Place your order early and get your seed on time. We take pleasure in answering all correspondence and cheerfully send samples and prices when requested. We shall issue one Annual Circular early, possibly some time in August. On account of removal, we offer a few hundred bushels of Smock and mixed, still on hand, at 40c. and 25c. per bushel F. O. B. less 5 per cent. for Cash, or will give time with interest added after 60 days

Long Distance C. & P. Phone, Wolf "1321"
P. O. Box 451

W. W. WITTMAN & CO.
117 Hanover Street, Baltimore, Md.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

WEATHER-PROOF
SHIPPING-TAGS
and
Paper Tree Labels
FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

Sears, Henry & Company

Wholesale Nurserymen

Geneva, New York

Offer a large general stock for the coming Fall and Spring

PAN-HANDLE NURSERIES,

GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach

IN CAR LOTS.

We also gtow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendron, etc. etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

J. K. HENBY & SON.

Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted. Can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.

FOREMAN WANTED.

Practical working Foreman and Propagator, sober and industrious, young man preferred. One who thoroughly understands Perennials, to take full charge of Herbaceous Department. Position permanent. Best of references required. Address with full particulars, and state salary expected.

ANDORRA NURSERIES, CHESTNUT HILL, PA.

Choice Nursery Stock

FOR SALE

15,000 APPLE TREES, 5-8 to 3-4, for sale cheap.
100,000 CALIFORNIA PRIVET, from 1 to 3 ft.
10,000 HYDRANGEA PANICULATA, both bush and tree form. Also a large stock of FOREST TREES, WHITE, AUSTRIAN AND SCOTCH PINE OF ALL SIZES. Address:

THE STEPHEN HOYT'S SONS CO.
NEW CANAAN, CONN.

When writing to Advertisers mention The National Nurseryman.

THE RIGHT THING FOR THE RIGHT PLACE

is all right, but who can say what is the right thing, that's the question? When you buy a watch you go to people who, you know, know watch making—you do not care to experiment with time. Greenhouse building is not a proposition for the unskilled any more than the watch is for a machinist—it's not only building a house, but it's the knowledge of how to build and what to build it of.

LORD & BURNHAM CO.
GREENHOUSE DESIGNERS and MANUFACTURERS,
1133 BROADWAY COR. 26TH ST., N. Y.
Boston Branch: 819 Tremont Bldg.

We have been getting good, sound experience for some 50 years. If you want to pay for your experience, buy from the other firms—if you want to make our experience pay you—then buy from us.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

When writing to Advertisers mention The National Nurseryman.

XENIA
STAR NURSERIES
XENIA, OHIO.

We have the following lines of superior stock to offer for Fall, 1906:

APPLE,
ST. PEAR,
DWF. PEAR,
CHERRY,
PLUM,
PEACH.

We have a full supply of the famous Opalescent Apple. Plates free.

An opportunity to submit prices on any of the above stock is respectfully solicited.

McNARY & GAINES.

The Relation of Raffia To Successful Budding

A Little Logic.

After a plan has been formulated to make an article, the next step is to reduce to a minimum the cost of operating the plan. In other words, the aim is to secure the greatest output at the least cost?

Are you budding the maximum number of stocks per day with a minimum expenditure for Raffia? The quality of the Raffia that you use answers that question in this way: Assume you are buying the cheapest (?) unguaranteed sort. If you are, the waste from strands that are harsh and stringy, in addition to those that are lacking in strength, more than cancels the few cents saved (?) on the first cost. The additional time required or speed sacrificed in using the material is loss; *actual loss. It preys on your profits.*

In our "Red Star" Brand

we offer you material which enables you to do the greatest amount of work—and do it well—in the least time. No waste from harsh, stringy or weak strands, and to protect you our guarantee accompanies every pound.

The use of "Red Star" Brand is synonymous with maximum results at minimum cost. Is this not what you want?

Thomas Meehan & Sons, Inc.
Box T, Dreshertown, Penna.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.

From some of this land an average of $416 95, net, was made last year on Strawberries.

From Cantaloupes, $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent.

Louisville & Nashville R. R.
LOUISVILLE, KY.

June Budded Peach

ELBERTA, CARMAN, GREENSBORO and all leading varieties guaranteed true to name.

General line Nursery Stock at Wholesale Prices.

Best of references furnished.

Winchester Nursery and Orchard Co.
WINCHESTER, TENN.

When writing to Advertisers mention The National Nurseryman.

CHERRY TREES

We offer both one and two year old Cherry trees for the coming fall and spring. Nurserymen who have never seen our one year trees cannot appreciate their quality and worth. Can also furnish some Plum and Peach and other stock. Let us figure on your wants.

KNOX NURSERIES,
H. M. Simpson & Son, Vincennes, Indiana

Oakland Nurseries

Will make special prices for immediate orders on PEACHES and APPLES in car lots for late fall delivery.

We also have a fine lot of Shrubbery, including Berberry Thumbergii. Don't fail to send us your want list for SPECIAL PRICES.

C. R. BURR, Proprietor,
Manchester, Conn.

1-YEAR-OLD 2½ IN. POTS. **ROSES** 2-YEAR-OLD 4 INCH POTS.

Baby and Crimson Rambler, Dor. Perkins, Lyonnaise, Ulrich Brunner, Laing, Alps, Diesbach, Masson, Wood, Lambelin, Caprice, Jacq., Dinsmore, and many others. On own roots.

Laing, Neyron, Wood, Alps, Lyonnaise, Diesbach, Neige, Lambelin, Caprice, Jubilee, Plantier, Dinsmore, Masson, Charta, Jacq., and others. Careful packing; true labels.

Leedle Company, EXPERT ROSE GROWERS, Springfield, O.

When writing to Advertisers mention The National Nurseryman.

AUG. RHOTERT,

26 Barclay St., New York.

SOLE AMERICAN AGENT FOR

LOUIS LEROY'S NURSERIES,
Angers, (France).

Growers and Wholesale Exporter of Fruit and Ornamental Stocks, Manetti and Multiflora, Etc.

H. M. HARDYZER,
Boskoop, (Holland).

Grower and Wholesale Exporter of Roses, Clematis, Rhododendrons, Evergreens, Hardy Azaleas, Peonies, Conifers, Etc.

JOHN PALMER & SONS, Ltd.
Annan, (Scotland).

Growers and Wholesale Exporters of Winham Industry and other Gooseberries, Currants, Manetti Stocks, Rhododendrons, Roses, Evergreens, Etc.

"RAFFIA"

G. H. R. Brand. White, strong fibre in braided hanks. Own selection at prices F. O. B. cars New York, from stock.

Dreer's Herbaceous Pæonies

We will have to offer for September and October delivery an immense stock of Home Grown Pæonies in popular standard varieties, a special list describing these and quoting interesting prices will be issued early in July. If you are interested drop us a line and a copy of same will be mailed to you as soon as issued.

HENRY A. DREER,
714 Chestnut St., Philadelphia, Pa.

An Old, Reliable and Responsible Nursery Company

with an exceptionally large general stock of standard fruits, ornamentals and evergreens; with good packing grounds, buildings and cellars; located on two lines of railroads in Central Iowa, will sell their entire stock, real estate and all property with the good will of the company. Anyone wanting a good location and a good stock will do well to correspond and look us up.

Address all communications to
D. F., care of National Nurseryman.

WANTED.

Bookkeeper and accountant, for past fifteen years with one of the largest Western nurseries, wishes position after June 1st.

Address **B.**, care of National Nurseryman.

NEW YORK CENTRAL LINES

The Great Central Railway System of America

Operating more than 12,000 miles of railway east of Chicago, St. Louis and Cincinnati

COMPRISING THE

New York Central & Hudson River
Lake Shore & Michigan Southern
Big Four Route
Michigan Central
Boston & Albany
Pittsburg & Lake Erie
Lake Erie & Western
Chicago, Indiana & Southern
Lake Erie, Alliance & Wheeling
New York & Ottawa and Rutland Railroads

C. F. DALY
Passenger Traffic Mgr.
New York.

W. J. LYNCH
Passenger Traffic Mgr.
Chicago.

W. FROMOW & SONS, THE NURSERIES,

WINDLESHAM, SURREY, ENGLAND.

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation, Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay Street, or P. O. Box 752.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
60 CORTLANDT ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

NORTH CAROLINA
NATURAL PEACH PITS

Now ready for delivery. These seeds are in great demand and you should ORDER AT ONCE.

ADDRESS

JOHN A. YOUNG, *Greensboro, N. C.*

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING, 1906

One of the most complete lines of

Fruit, Shade and Ornamental Trees, Roses, Shrubs and Perennials

to be found South of the Ohio River.

Seedlings we have in large quantities, including Oaks, Gums, Chestnuts, Cypress, Tulips, Magnolias, Elms, Mulberries, Black Locust and Catalpa Speciosa.

WE ARE HEADQUARTERS FOR CATALPA SPECIOSA, AND BLACK LOCUST SEEDLINGS,

having grown in 1905 over Sixteen Million Seedlings of Locust and Catalpa alone by actual count.

Send us your list of wants to price.

Spring trade-list will be ready in February; send for it.

THE DONALDSON CO., Warsaw, Kentucky.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of
FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest, Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

F. E. SCHIFFERLI

FREDONIA, N. Y.

Grape Vines and Currants.

I offer for sale of 1906 an immense stock and complete assortment. A particularly fine stock of Extra Heavy two and three year vines for

NURSERYMEN'S RETAIL TRADE.

Also a light grade of vines for lining out in nursery rows. I guarantee careful grading and prompt shipment.

Grape and currant cuttings quoted upon receipt of amount and varieties wanted, which should be ordered early.

Correspond before placing your order.

WANTED

Competent Bookkeeper and Correspondent. State qualifications, references and salary wanted.

Hanford Nurseries, Oakesdale, Wash.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.

Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

Primer tomo

Número diez

La Hacienda

Obra Mensual Ilustrada Sobre Asuntos Campestres y Populares

JULIO DE 1906

$2.50 anuales moneda de oro
Buffalo, N.Y., E.U.A.

"Odontoglossum Crispum". La orquídea más apreciada de Europa, algunas de las cuales están avaluadas en $5,000 (oro).

"NEW GROUND"

THE plow must break its way for the planting, the start must be made, the seed sown—then the crop.

La Hacienda is breaking new ground for the nurseryman in Spanish-speaking lands—opening up new and profitable fields to the plow and the planting.

The plantation owners of Mexico, Central and South America, the West Indies, Spain and the Philippines, are buying not alone citrus fruit, but peach, pear, apple, cherry and ornamentals—liberally too, one firm alone in one year shipped orders into this territory to the amount of $70,000.00.

With pardonable pride, we quote verbatim, a recent letter (unsolicited) from the Glen Saint Mary Nurseries.

Mr. Sturges D. Dorrance, Glen Saint Mary, Florida, May 15, 1906.
Manager of Advertising,
La Hacienda, Buffalo, N. Y.

Dear Sir:—You may be interested to know that our advertisement in La Hacienda has brought us more inquiries than any two or three others combined, and these inquiries have been for the most part from people who seemed to be of the wealthier class.

Several orders have already been received, and some of them for large quantities of trees. Many more orders will come in during another season.

Inquiries from your paper have come from many and widely separated countries—from pretty nearly every nation in Central and South America, from Spain, Mexico, and various sections of Southern Europe, as well as numerous ones from the West Indies. Some even from the Philippine Islands.

Very truly yours, GLEN SAINT MARY NURSERIES,
Aubrey Frink, Secretary.

This letter tells its own story—we will say no more—only **just think it over.** Mr. Dorrance will be at the Dallas Convention. Get hold of him and talk it all over, that is if he doesn't get hold of you first.

LA HACIENDA COMPANY
BUFFALO, N. Y.

AUGUST WILL BE OUR
SPECIAL FRUIT NUMBER

STURGES D. DORRANCE
MANAGER OF ADVERTISING

Snow Hill Nurseries

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. **W. M. Peters' Sons** Telegraph Office: Western Union, Berlin, Md.

Post Office: SNOW HILL, MD.

The Fraser Nursery

JOHN FRASER, Prop.

HUNTSVILLE, ALABAMA.

OFFER FOR IMMEDIATE OR LATER SHIPMENT

All Grades of CHERRY, 2 years. PEAR, Standard, 1 and 2 years. PEACH and PLUM, 1 year. MULBERRY, 1 year. PECAN SEEDLINGS and GRAFTED. CALIFORNIA PRIVET, 1 and 2 years. DWARF BOX, 1 year. AMPELOPSIS VEITCHII, 1 and 2 years. CRIMSON RAMBLER, BALT. BELLE, QUEEN OF PRAIRIE and MAD. PLANTIER ROSES, own roots, 1 year.

WRITE FOR PRICE LIST

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

TREE PROTECTORS

75c. per 100. $5 per 1000.

Send for samples and testimonials. Do not wait until rabbits and mice ruin your trees. *Write To-day.*

HART PIONEER NURSERIES,

Box 27, FORT SCOTT, KANS.

Charles Detriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

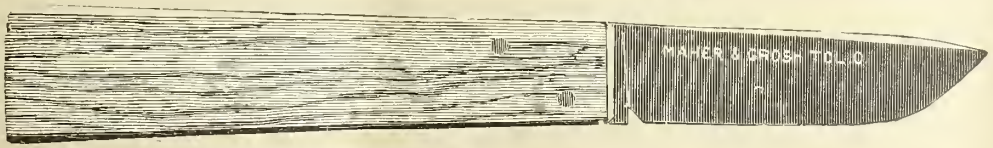
Nursery Stock OF ALL KINDS At Wholesale

Send us a list of your wants for prices. We will save you money.

AGENTS WANTED EVERYWHERE.

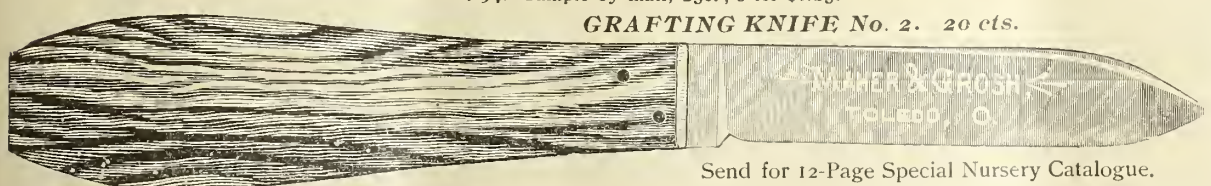
HART PIONEER NURSERIES,

Box 27, FORT SCOTT, KANS.



BUDDING KNIFE No. 94. Sample by mail, 25c.; 6 for $1.25.

GRAFTING KNIFE No. 2. 20 cts.



Nurserymen's KNIVES

Hand Forged. Razor Steel. Warranted.

Nursery Pruner, 50c.
Pocket Pruner, 60c.
Pocket Budder, 35c.
Pocket Grafter, 40c.

Send for 12-Page Special Nursery Catalogue.

We Solicit Direct Trade.

MAHER & GROSH CO., 90 A STREET, TOLEDO, O.

Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1906,

For nursery stocks, of their own growing, grading and packing
For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 HUDSON ST., NEW YORK CITY.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.
Nurseries: Henrico and Hanover Counties.

OFFER FOR FALL 1906 AND SPRING 1907

Peach Trees—Budded on Natural Peach Seedlings.
Std. Pears—Nice assortment, Keiffer especially.
CALIFORNIA PRIVET—Fine Plants.
And General Line of Nursery Stock.

We have on hand about 200 Bushels Natural Peach Pits Crop 1905, and expect in due season our usual supply of this year's crop. We have been handling these seed for years with universal satisfaction.

Correspondence solicited.

VERMONT APPLE SEED

produces the healthiest seedlings, most perfect stands. A few bushels unsold.

APPLE SEEDLINGS from Vermont seed
ROOT GRAFTS, all leading sorts
GRAPE VINES, New York grown
MAHALEB CHERRY SEEDLINGS
MYROBOLAN PLUM SEEDLINGS
NATIVE PLUM SEEDLINGS
JAPAN & FRENCH PEAR SEEDLINGS
QUINCE STOCKS
CAROLINA POPLAR
APPLE SCIONS, extra fine, leading sorts
STARK TREE DIGGER—THE BEST
A Complete Line of General Nursery Stock

STARK BRO'S NURSERIES & ORCHARDS CO Louisiana, Mo.

The L. Green & Son Co.

Western Reserve Nurseries,
PERRY LAKE CO., OHIO,

carry a most complete line of the wants of the trade, including a fine assortment of Roses of all kinds, Maples, Silver, Norway, Ash Leaf and Weir's Cut Leaf, Elms, Catalpas, Mt. Ash, European, Cut Leaf Weeping Birch, Magnolias, Double Lilacs, tree form, and Snow Ball tree form, Clematis, Hydrangea, tree and bush form, American Sweet Chestnuts, Car. Poplars, Currants, Grapes, Rhubarb, a general good assortment of shrubs of nearly all kinds and sizes.

Evergreens, Arbor Vitæ, Siberian, Pyramidalis and Tom Thumb, Pines, Austrian, Scotch and White, Norway Spruce, etc., etc. All Evergreens two and three times transplanted and very fine.

Native Plums one and two years in the three grades.

We also have an elegant line of Perennial Plants in a full assortment of varieties, consisting of the newest and most popular sorts, on which we are able to make special inducements for early orders.

Correspondence solicited and inspection invited.

Apple, Cherry, Peach, Plum and Kieffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded. None better.

Osage, Russian Mulberry and Soft Maple Seedling.

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

Shade Trees

Elm, Soft Maple, Box Elder, Weir's C. L. Maple.
GRAPE VINES, FLOWERING SHRUBS.
APPLE GRAFTS. All styles made to order.

PETERS & SKINNER

CAPITAL NURSERIES

NORTH TOPEKA, KANS.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

WEST CHESTER, PA.

OFFER FOR THE FALL OF 1906

a large assortment of Ornamental Trees and Shrubs, especially fine stock of PIN and RED OAKS, all sizes.

Would also call your attention to our VIBURNUM PLICATUM'S, fine plants.

We have the largest field of PEACH TREES we ever grew, also surplus of JAPAN PLUMS

SEND US YOUR LIST OF SHORTS.

Established 1853.

Philadelphia Office,
222-3-4-5 Stephen Girard Building.

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

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FOREST TREE SEEDS AND SEEDLINGS

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Forest Nursery and Seed Company

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GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

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VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

[REDUCED SIZE]

DESCRIPTION :—Winter apple; handsome red; good size; splendid flavor; excellent keeper; hardy tree; abundant bearer and absolutely seedless.

The Spencer Seedless Apple

FIRST DELIVERY of this famous variety **FALL 1906.**

ORDER TREES NOW

as supply is limited.

WARNING We are the **EXCLUSIVE GROWERS and DISTRIBUTORS.**

AGENTS WANTED. Send for Free Art Catalogue.

THE SPENCER SEEDLESS APPLE CO., General Nurserymen, **BUFFALO, N. Y.**

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ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.

Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

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Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees
and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST
AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

ESTABLISH YOUR NURSERY
OR A BRANCH

Of it in the South. All Southern Nurserymen are prosperous, none of them have ever failed, because they do an immense volume of business and get good profits. Our most successful Nurserymen have come to us from other sections.

Southern land owners, fruit raisers, truck-growers and florists have accumulated hundreds of thousands of dollars. They've saved it. They took it out of the fertile soil of the South, and they are going to replant these savings year after year, for a still larger and more profitable harvest.

In ten years Virginia, the Carolinas, Georgia, Florida and Alabama, will be recognized as the greatest fruit and vegetable sections in America. The Seaboard Air Line illustrated monthly Magazine gives the reasons; you should know them and we will put your name on our complimentary mailing list upon request.

If you want a new location write us.

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FIVE DAILY VESTIBULED TRAINS

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FREE RECLINING CHAIR CARS
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Full information regarding rates, etc., cheerfully given. Address

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JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

A CUSTOMER who first came to us last fall, in conferring about his second catalogue a few days ago, said: "You can hardly understand how much of a relief it is to me to have *you* take care of our catalogue work. Formerly, I had to follow up the catalogue every day after I began with the printer, urging him to hurry, stirring him up for proofs, and looking after every little detail. Even then he was nearly always late in delivering the catalogues, and I know we lost sales because the catalogue was not ready.

"With you it was very different. You chased me for the 'copy,' and you had the catalogue ready on time, as well as better-looking than it was before. The season was early, and I am sure we sold at least a thousand dollars' worth more by having such a good catalogue so promptly."

We print these pleasant words, not only because they are true as well as pleasant, but to point a statement, thus: *We will not accept more work than we can do with reasonable promptness.* Accidents outside of our control excepted, we make prompt deliveries, and will maintain our ability to do so by declining late orders, or any orders beyond our maximum capacity.

Our capacity between October 1 and January 15 (1907) is NOW almost full. We have room before this, and after; but every day the new orders decrease it. If some nurserymen are thinking about having, in 1906 or early in 1907, better catalogues, up-to-date in plan, pictures and performance, it is desirable to turn the thinking over to us *very soon.*

No one who was at Dallas can say that the nursery trade

is not prosperous and pushing. We have helped, with our photographs and engravings and well-made catalogues, to make it so, and will continue the same good work.

We are also moved to express our pleasure at the compliments paid us, both direct and indirect, by our competitors, with whom we like to be friendly. One declares he can do catalogues "as well as McFarland," while another actually wakes up and copies our advertising style. The latter is funny, even if complimentary, for we all remember the fable that tells of the failure of the attempt to pass off an unmistakable bray as a terrifying roar! The long ears would wobble! We are always glad to have last year's catalogue ideas availed of by imitators; we are using *this* year's thoughts and plans and photographs and facilities, and the band still plays right at the head of the procession the same old tune—"The Mount Pleasant Press March."

Write us any time about catalogues; but please try to avoid asking us to supply colored plates of the regular "hand-painted" style (white-wash is *hand* paint, you know!), or stock catalogues, or ancient plate-books. We don't run a cemetery!

J. HORACE McFARLAND COMPANY
Mount Pleasant Press
HARRISBURG, PENNSYLVANIA

Apple Trees and Apple Seedlings

With usual supply of Cherry, Peach, and Plum Trees for Fall, 1906 and Spring, 1907.

GOOD STOCK,
GOOD GRADES.

L. R. TAYLOR & SONS,
TOPEKA, KANSAS.

Geneva, New York

Where hardy, thrifty, fibrous-rooted trees are grown.

We offer for sale a large assortment of Apples, Standard and Dwarf Pears, European and Japan Plums, Peaches, Currants, Roses, Herbaceous Paeonies, etc.

Let us quote you some especially LOW PRICES on the following:

BIRCH, Cut Leaf Wp'g 2 yr.,
MAPLE, Silver Leaf,
CAROLINA POPLAR, and a complete assortment of Shrubs.

Correspondence Solicited.

WILLIAM STREET NURSERIES.

T. W. & J. P. Rice, Prop's.
GENEVA, = = NEW YORK.

McHutchison & Co.

17 Murray St., New York

Sole Agents for United States and Canada for

VINCENT LEBRETON,
La Pyramide, Angers, France.
Wholesale Grower and Exporter of
French Fruit and Ornamental Seedlings, Manetti, Evergreens, etc., etc.

SCHAUM & VAN TOL,
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Large Growers and Exporters of
H. P. Roses, Clematis, Rhododendrons, Hardy Azaleas, Paeonies, Conifers, etc., etc.

H. W. VAN DER BOM & CO.,
Oudenbosch, Holland.
Largest Holland Nurseries of
Norway and Schwedlers Maples, Chestnuts, Thorns, Deciduous and Evergreen Trees of all kinds.

SPECIAL PRICES upon Japanese Maples, Sciadopitys and all Japanese Nursery Stock, also English and Foreign Nursery Stock of every description mailed upon application.

RAFFIA, Red Star Brand.

We are large direct importers. The Red Star Brand stands for quality. Write for prices.

SHIPMENTS: Import and Export attended to. Our facilities enable us to take advantage of lowest rates consistent with safety of perishable stock.
Write us. If in doubt, write us. If not, write us anyway.

McHUTCHISON & CO.
17 Murray Street, NEW YORK CITY.

WEATHER-PROOF
SHIPPING-TAGS
and
Paper Tree Labels
FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

When writing to Advertisers mention The National Nurseryman.

HUNTSVILLE WHOLESALE NURSERIES.

The cultivators are started in early spring and are kept on the move throughout the season. The disc type gives excellent service on this land. Here is a fine stand of dormant buds.

ONE YEAR OLD PEARS.

Note remarkable growth. Those on left cut back. Mr. Heikes, who stands in foreground, is above the average height, but trees are two or three feet taller.
Huntsville Wholesale Nurseries, Huntsville, Ala.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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THE HUNTSVILLE WHOLESALE NURSERIES.

A GREAT TREE FACTORY OF NORTHERN ALABAMA.

[Written and Illustrated by the Special Correspondent of the National Nurseryman.]

Every nurseryman in the country, whether wholesale or retail, knows something directly or indirectly of the enterprise and business characteristics of a great wholesale nursery situated in northern Alabama. A visitor to the office and executive headquarters of this enterprise would find in the manager, Mr. W. F. Heikes, a quiet, dignified, systematic, thorough-going business man. Unimpressive as to methods of doing work, nevertheless the many lines of this large business are conducted under his guiding hand with great regularity and precision.

THE ESTABLISHMENT OF THE BUSINESS.

It was in 1872 that Mr. Heikes, an Ohio man, came into Alabama prospecting for a location where soil, climate, the labor market, and transportation facilities afforded a promising field for an enterprising tree grower. He found such a location at Gladstone, about twelve miles from the thriving city of Huntsville. Twelve miles from a distributing point! you say; and this means all that the phrase expresses. It also means that the nursery is located twelve miles from a railway. Knowing the extent of the business carried on by the company, and realizing what twelve miles in Alabama roads mean, the intelligence is almost astounding. But an examination of the situation, character of business, and system under which it is conducted, throws a very different light on the situation. The drive from Huntsville to the nursery lands is as interesting and picturesque as can be found in any farming region. It runs through a rolling region, crossing a well-defined ridge of hilly land and passing through some of the oldest settled country in the northern part of the State.

SITE AND SOIL.

The site is a fairly well elevated plateau and contains beautiful stretches of land with gentle slopes, providing surface drainage and facilities for sub-drainage. There are two or three level areas, each containing from three to four hundred acres, which have been cropped now for a number of years, and are still producing, under the system of management practised, high grade nursery stock. The new lands are being cleared of their pine and hard wood timber, being cropped with cotton and corn, ameliorated with cow-peas, deepened with a sub-soiler, and generally brought into a fully civilized condition for the growing of the specialized crop. The soil is of the Piedmont red clay series, deep and friable. When this land was taken hold of by Mr. Heikes, there were only fifty acres cleared; but the timber land has gradually given way to clearing operations, until now the tract is all under cultivation with the exception of a comparatively small area. One of the special advantages of this soil and location is that the trees ripen relatively early and can be dug early, in this way satisfying the requirements of northern purchasers.

TRANSPORTATION QUESTION.

It is, as before stated, remarkable to realize that the product of these broad acres is hauled by wagon over the

Heading back pear trees in Huntsville wholesale nurseries. The growth is so uniform and ground so level that a measuring stick is used to bring them all to the same height.

The Huntsville Wholesale Nurseries grow large quantities of pecan seedlings. Here is a block of many thousands photographed just before the grafting season. The demand for stocks and propagated varieties is rapidly growing.

intervening twelve miles between Gladstone and Huntsville, and further that the business system is such that the transportation charges are paid for by profits arising out of necessary side enterprises which the isolated situation and large number of employees make necessary. The stock is dug, boxed, baled or corded loose, and hauled on platform wagons from the nursery grounds to the station. Mr. Heikes has proved to his own satisfaction that it is better to go where the soil is right and land reasonably cheap, in the growing of nursery stock, than to take less favorable or more expensive soil because it is better situated in regard to transportation.

STOCK AT THE GLADSTONE ESTABLISHMENT.

At the time of our visit in early spring, when the photographs accompanying this sketch were made, large forces of men and women were engaged in setting fruit stocks and dormant buds. These are grown here on a truly wholesale scale. Among the leading lines are the cherry, the peach, the pear, and the plum. Think of planting six hundred thousand dormant peach buds; of setting a million and a half June buds; of handling seven or eight hundred thousand cherry stocks; and of preparing to bud a couple of million peach stocks! But a thousand acres of ground will hold a lot of nursery stock. The photographs accompanying this sketch illustrate very fairly the character of the stock and the various lines of activity that one might expect to see during the closing days of spring planting after the shipping season had closed. Another set, exhibiting the growing stock, might easily be secured in mid-season.

THE LABOR QUESTION.

An institution as large as this solves its own labor problem, because it is great enough to create a community in itself. Here we have store, postoffice, church and school building, and all the appurtenances of a small village. The nursery maintains some thirty tenement houses, and its store supplies the employees with the simpler necessities

Dormant buds and stocks are set by hand in trenches, the soil well compacted and the trenches carefully filled. Women workers are employed in the nursery.

The stocks are laid in the row, then straightened and set by hand. The mellowness of the soil makes this method not only practicable but expeditious.

associated with village life. Incidentally, the profits materially aid in reducing the cost of transporting the stock from the nursery to the railway.

A scene at planting time in the Huntsville wholesale nurseries.

HOME OF THE OWNER.

One of the most attractive suburban features of Huntsville is the handsome residence of Mrs. Jessie S. Moss, the owner of these nurseries. This is a spacious colonial dwelling, recently erected, and situated on a commanding site on the outskirts of the town. It is located on a block of eighty acres, ten of which are being landscaped and planted with ornamental trees and shrubs, which form the immediate setting of the home. The plans have been made and the work executed under the direction of a competent landscape architect. Roads and walks are being installed in the most thorough and substantial manner. One is struck by the particularly fine type of border planting in progress. This commodious residence is supplied with its own water, heating and lighting plant.

SHIPPING FEATURES.

This nursery, for twenty-five or more years past, has made St. Louis, Rochester and Philadelphia distributing points. The stock forwarded to these points is placed in cold storage, where it is held ready, boxed and baled, for immediate shipment on receipt of telegraphic advice or orders by letter. Shipments from these distributing points can be forwarded at one day's notice. The firm has also made a practice for many years of sending out during the shipping period a series of bulletins giving the exact status of their stock at these distributing points. These circulars have greatly facilitated the purchase as well as sale of surplus stock in storage. Mr. Heikes, the manager of the nurseries, has always taken a liberal and interested part in the pomological councils of the country. He is a life member of the American Pomological Society, president of the State Horticultural Society, of Alabama, and vice-president of the American Association of Nurserymen. It should be added that this last paragraph has been added without his permission, as it is not his habit to exploit his horticultural attainments before the public.

Part of Gladstone plant of the Huntsville wholesale nurseries. The store and post office on the right; fumigatory, packing house, water supply, etc. on the left.

THE DALLAS CONVENTION.

ORLANDO HARRISON, PRESIDENT.

EMORY ALBERTSON ELECTED MANAGER OF TRAFFIC AND LEGISLATION.

HOSPITABLE TEXANS. PLEASANT WEATHER.

THIRTY-FIRST ANNUAL MEETING OF AMERICAN ASSOCIATION OF NURSERYMEN A SHINING SUCCESS. DETROIT NEXT PLACE OF MEETING.

THE GATHERING OF THE CLANS.

The transportation arrangements were well carried out. The ball began rolling at Rochester, at ten o'clock on Sunday night, the 10th, when Charlie Yates steered his party into a Pullman provided by the New York Central lines. This travelled by New York Central, Lake Shore and Big Four to St. Louis, thence M. K. & T. to Dallas. This party came through without change, and with the largest degree of comfort. Among those starting from Rochester were: Hon. Orlando Harrison, Berlin, Md.; Mr. & Mrs. J. W. Maloney, Dansville, N. Y.; R. M. Hartman, Dansville; John Morey, Dansville; Judge Lynn, C. J. Maloy, Lewis Chase, C. L. Yates and M. B. Fox, of Rochester; S. D. Dorrance, New York; C. R. Burr, Manchester, Conn.; John Watson, Newark, N. Y.; D. Z. Morris, Brown's P. O., Ont.; John Craig, Ithaca, N. Y.; Nelson Bogue, Batavia, N. Y. At various points were added Mr. and Mrs. Josselyn, Mr. and Mrs. Scarff, New Carlisle, Ohio; Mr. and Mrs. Albertson, and Wm. Gaines, Zenia, Ohio; Mr. and Mrs. C. N. Peters, New Carlisle, Ohio; C. A. Ilgenfritz, Monroe, Mich.; John Siebenthaler, Dayton, Ohio. At St. Louis an important delegation was added. Here Mr. Weber was instrumental in making the short stop-over entirely agreeable. We commend Mr. Weber as a very useful man at all times, but especially so in his own town.

The train of three sleepers and an observation car, now started as a special. The run to Parsons, Kansas, where the Kansas delegation joined the train, was most agreeable, the weather being cool and pleasant. Constant additions occurred down the line, swelling the party, so that a full train load of five cars rolled into Dallas, where it was met by the reception committee and a brass band on Tuesday evening at eight o'clock. No one was tired, therefore no one was "grouchy." Recent rains had cooled the air and laid the dust.

The Oriental Hotel soon overflowed, and the billeting committee had their hands full to find quarters for the visiting brethren.

INCIDENTS OF THE TRIP.

Much might be written regarding the features of the journey and all of a pleasant character. With President Albertson's party at Indianapolis there arrived also two crates of fine Haverland strawberries, thoughtfully contributed by the Willowbrook Berry Co., John Terrel, president, Bridgeport, Ind. Here, too, Mr. F. D. Courtney, District Passenger Agent of the M. K. & T. Ry., joined the excursion, and thereafter gave his personal attention to the comfort of the passengers. Most interesting it was to observe the procession of farm crops, as the train rolled southward. Cherries coloring in Indiana, wheat ripening in Missouri, wheat harvesting in southern Kansas; corn just well above ground in New York, two to three feet high in Indiana; tasselling in southern Kansas, roasting ear at southern Indian Territory, and ripe in southern Texas. The wealth of wayside flowers in southern Kansas, across Indian Territory and northern Texas called forth constant exclamations of delight from the excursionists. Glorious masses of roses, gilias, and beautiful composites were to be seen on either hand.

For some of the party the trip had special interest. For instance, Mr. Nelson Bogue, of Batavia, New York, was visiting a region which he had not seen since he came through with an engineering party of the M. K. & T. Ry. in 1869. This was when Indians were in possession, when Buffaloes were receding and when the region of southern Kansas was a fighting ground for various kinds of malcontents. The term "bleeding Kansas" was no mere empty phrase, but described a deplorable condition. Mr. Bogue could but gaze in astonishment at the marvelous changes the intervening lapse of thirty-five years had brought forth.

STORY OF THE CONVENTION.

The sessions were held in the rooms of the Commercial Club, a few blocks from the Oriental Hotel. The first part of Wednesday morning's session was devoted to the usual interchange of courtesies. Stanley Watson cracked a few jokelets, during the course of which he offered the following advice to visiting friends:

"My Texas friends are glad you are here. Whatever these Texas people may say to you, charge it up, not to boasting, not to trying to rub it in because our country is better than yours, but to their patriotism. They are testifying to their gratitude at being Texans.

The Dallas Convention. While the President's address was being read

"We invite you to come into our State and hunt for business. We have about 4,000,000 people and they are good people, coming from all States and every country. There isn't a nurseryman so little and so mean that would object to honest competition. If our goods are better than yours, we will hold our trade; but if your goods are better than ours, we want the people of Texas to get the benefit. You should know, however, that if you try to convince us that your goods are better than ours, you are up against it."

JUDGE LYNN MAKES GOOD.

"Our State is not so large, and in the presence of citizens of Texas I feel modest," said Judge John D. Lynn, of Rochester, N. Y., replying in behalf of the nurserymen. "We accept this welcome in the full spirit of your courteous expression. We looked forward to this visit as the people of old looked forward to the promised land. Yesterday we struck the promised land, after passing through the Territory. We found the reason Mr. Watson did not tell us all about Texas was because the English tongue is not able to adapt itself to expression of its beauty. In the words of the Queen of Sheba, 'you never said a word about it.'

"I am glad that all our people did not come. I am glad that these pictures have not been transferred to canvas and paraded before our youths, because I believe our State would be depopulated."

The speaker then spoke of the history of Texas and of the money and labor which the United States expended in defending Texas from Mexico; also of the prominent part which men of other States had taken in Texas history.

"At one time, when we wished to hurl an anathema at a man, we told him to go to hell or to Texas," he said. "But I can find no comparison, not even in the matter of climate. One place has been described by my orthodox pastor, and the other place has been described by your citizens; but the only similarity seems to be the high society that is said to inhabit both."

Curtis P. Smith, on behalf of the city of Dallas, gave the keys of the city to the visitors, expressing appreciation of the work accomplished by the horticulturists in improving varieties. The Mayor spoke of the population of 1,500,000 living within a radius of 100 miles of Dallas; of the vastness of Texas and of the size and importance of Dallas.

Mike H. Thomas, president of the Commercial Club, welcomed the visitors on behalf of the club. He kept the assembly laughing with a number of yarns and told of the early history of the State.

He was followed by J. E. Farnsworth, representing the 150,000 Club. Mr. Farnsworth spoke briefly and pleasantly, regaling the nurserymen with a number of jokes.

This closed the formalities, and Mr. Albertson presented his address, which was referred, with the report of the Committee on Transportation, to a special committee of the Association.

ENTERTAINMENT AND EXCURSIONS.

HOSPITALITY OF THE CITY OF DALLAS AND TEXAS NURSERYMEN.

On Wednesday afternoon and evening the nurserymen were the guests of the city of Dallas, in immediate charge of the Commercial Club. The afternoon was enjoyed in visiting the park and roller rink, where a few of the more venturesome risked their bones upon the tricky but seductive rollers. Succeeding this, a reception was given by Colonel Moss at his spacious residence a few blocks distant. This reception was of the true southern type, and good cheer and an excellent brand of punch were dis-

The Dallas Convention. Mr. J. W. Kerr reading a paper. President Albertson and Vice President Harrison on platform.

pensed with characteristic liberality. The evening was occupied by a reception and dance at the pavilion.

THURSDAY AFTERNOON: MELONS AND BADGERS.

Again the members of the convention were in the generous hands of the reception committee, guided by Colonel Moss who, after taking them for a trolley ride about the city, landed them at the Fair Grounds. Here the first number on the programme consisted of a melon-eating contest, participated in by four negroes, representing the four corners of Texas. The contest was most amusing, and the way those "colored gentlemen," with hands tied behind their backs, burrowed into the heart of big watermelons with lightning-like rapidity, was an eye-opener to men from the North, who are accustomed to interview these fruits comparatively gingerly, with teaspoon or fork. The champion eater came from east Texas. Succeeding this exhibition, an opportunity was given to engage in the exciting amusement of "shooting the chutes"

The gladiators in the water-melon eating contest.

and various other diversions of this kind. A select party was then guided to a remote corner of a hayfield, where an exciting badger and dog fight was pulled off in the regulation "West Baden" manner; the contest was carefully umpired by Mr. Rogers, of Arkansas, and the climax was hugely enjoyed by a large delegation present.

THE BANQUET.

BY THE TEXAS NURSERYMEN'S ASSOCIATION.

This was the climax of the entertainment festivities given by the good people of Dallas. Some three hundred and fifty guests and friends sat down before beautifully decorated and sumptuously laden tables in the spacious dining room of the Oriental Hotel at 9:30 on Thursday evening. This was in no sense a banquet by courtesy of title. It was a banquet in fact. The excellent menu was served with admirable precision, and by those who are qualified to judge, the brand of champagne which made a part of it was of the right vintage. The decorations of the tables were roses and gladiolas in profusion, and displayed in excellent taste.

The preliminaries; tying the hands of the contestants.

TOAST LIST OF BANQUET TO AMERICAN ASSOCIATION OF NURSERYMEN. DALLAS.

STANLEY WATSON, Toastmaster.

"Come fill the Cup, and in the fire of Spring,
Your Winter garment of Repentance fling:
The Bird of Time has but a little way
To flutter—and the Bird is on the Wing."

JOHN A. EWTON, Dallas, Texas.

Genealogical Tree Labels.

JOHN C. CHASE, Derry, N. H.

"And lately, by the Tavern door agape,
Came shining through the Dusk an Angel Shape
Bearing a vessel on his Shoulder; and
He bid me taste of it; and 'twas—the Grape."

GEO. S. JOSSELYN, Fredonia, N. Y.

Katy-did.

F. D. COURTNEY, Indianapolis, Ind.

Apple Trees and Beagle Hounds.

COLLINS GEORGE, Texas.

Ways and Means of Extending our Trade Relations with South Africa, Philippine Islands and South America.

R. C. BERCKMANS, Augusta, Ga.

"A book of Verses underneath the Bough,
A Jug of Wine, a Loaf of Bread,—and Thou
Beside me singing in the Wilderness—
Oh, Wilderness were Paradise enow!"

JUDGE LYNN, Rochester, N. Y.

Hard at it—no time lost!

A FEAST OF WIT AND FLOW OF SOUL.

About eleven o'clock, President Albertson placed Stanley H. Watson in charge of the toast list, and it is needless to say that Stanley rose to the occasion and gracefully explained how he managed to elect himself at once to the chairmanship of the reception committee and the toastmastership. He then called upon John A. Ewton, President of the Commercial Club, of Dallas, to lead off. In the language of the "diamond," Mr. Ewton demonstrated his ability to score a home run. He dilated interestingly upon the size and vast resources of Texas, and sat down leaving the Easterners in a properly enlightened and duly subdued frame of mind regarding the magnitude of Texas

Next winter when we pine for sun
And turn up here with rod and gun,
Who'll make us happy that we've come?
Everybody.

If to-morrow morn you feel quite queer
Like the sinful men of "Texas Steer"
Who'll proffer cocktoils, Dallas Beer?
Everybody.

At home what person heaves a sigh
Are your profits low, expenses high,
Or cares a cuss if you are dry?
Nobody.

As our young men prance 'neath Dallas sky
Where dusky belles are stepping high,
Who turns half round and winks an eye?
Nobody.

We shall never know what "Katydid," because Mr. E.

The watermelon picnic at the Fair Grounds, Dallas, tendered by the Commercial Club to the American Association of Nurserymen.

and the comparative littleness of the small tracts of country in the East we dignify with the name of States.

Following Mr. Ewton, the toastmaster called upon a representative of the Granite State, John C. Chase, of Tree Label fame, who added a tribute to those already offered by visiting friends to the Texan hosts for the admirable quality of their hospitality.

A man who is always cheered and listened to with unqualified interest is "Papa" Josselyn, of Chautauqua County, New York. Papa gave an excellent speech, filled with quaint humor and a judicious sprinkling of good sense. He was forgiven for lapsing into poetry, on the score of the quality of the article, produced as follows:

When from the north our Pilgrim Band
Blew in on time at Promised Land,
Who shook us—kindly by the hand?
Everybody.

D. Courtney, of the M. K. & T. had only started to tell us when the irrepressible Harlan P. Kelsey, of Massachusetts, "butted in" and shut him off with a prearranged impromptu interruption.

Following Mr. Courtney's attempt, the audience was treated to a lengthy dissertation on the possibilities of apple-growing in the elevated sections of Texas, by Mr. Collins George. His stories of apple trees and apple yields were tall, if not elevated. Mr. R. C. Berckmans, of Augusta, then attempted to enlighten us on "Ways and means of extending trade relations with South Africa, Philippine Islands and South America," but, like Courtney, was called down by Mr. Knox, of San Antonio, on the charge of interjecting politics into a non-political convention; and the audience will never know what a good speech they missed.

The last toast which was scheduled was offered by Judge Lynn, of Rochester, New York. It is needless to say that the Judge rose to the occasion. His speech delighted everyone, more particularly, we suppose, the section of country which he especially represented. It was all that a speech of this kind should be. It was graceful, tactful, humorous and gifted; in fact, an ideal after-dinner production. Succeeding Judge Lynn, a few impromptues were indulged in; among those called upon and who gave a proper account of themselves were: Messrs. Kirkpatrick, of Texas, Craig, of New York, and Hill, of Iowa. The banquet closed by singing "Auld Lang Syne," after which a number of the younger members of the Association, with their visiting lady friends, indulged in a delightful dance in the spacious corridors of the hotel. One of the features of the occasion was the abundance and good quality of the music furnished by the vocal and instrumental artists engaged for the occasion.

EXCURSIONS.

Aside from the excursions in the immediate vicinity of Dallas, noted above, a number of important tours were indulged in by a large majority of the members of the Association, through the courtesy of the M. K. & T. Railroad. The first excursion, however, was by interurban trolley, from Dallas to Fort Worth, on Friday afternoon, where the party was met by the mayor of the city, cordially welcomed and treated to a car ride to the most interesting parts of the town. This excursion returned to Dallas at 7:30 on Friday night.

On the water (melon) wagon.

A group of the pioneers.

From left to right: Lewis Chase, W. F. Heikes, J. Van Lindley, E. W. Kirkpatrick, J. W Kerr, "Papa" Josselyn, J W. Hill, W. T. Hood, Judge Lynn, Wm. Gaines.

A TRIP TO SAN ANTONIO, HOUSTON AND GALVESTON.

The road mentioned above placed the members of the Association under deep obligations by giving an excursion which touched San Antonio, Houston and Galveston. It was to return north over the I. & G. N. tracks, connecting with the M. K. & T. at Mineola, but this part did not eventuate. This tour was most valuable from the directly educational, as well from a purely enjoyable standpoint. Leaving Dallas by special Pullman train at 8:40 on Friday night, the party arrived at San Antonio early Saturday morning, and devoted the day to visiting the interesting points in and about that historic city. Here they had the advantage of the leadership of Mr. Knox, a member of the Association residing in San Antonio, and Mr. F. D. Courtney, of the M. K. & T. Ry. They were also welcomed by the mayor and the president of the Commercial Club. The day in San Antonio will long be remembered. The Alamo, military post, parks and missions furnished interesting visiting ground during the day. A short stop in Houston and from thence to Galveston brought them to this noted city on Sunday morning. The day was spent in visiting the points of interest and examining the stupendous break-water being erected to guard the city against the incursions of the sea. From Galveston the party intended to leave over the I. & G. N. R. R. for northeastern Texas, where the fruit regions in and about Tyler were to be visited, but for various reasons it was decided to head directly north, so the train pulled out for Dallas again on Sunday night.

Among those who enjoyed the southern trip were: President Harrison, Berlin, Md.; J. W. Hill, Des Moines, Ia., vice-president; John S. Kerr, secretary of the Texas Association; Mr. and Mrs. E. Albertson, of Bridgeport, Ind., ex-president; C. L. Yates, Rochester, New York, treasurer; Peter Youngers, Geneva, Neb.; Chas. A. Ilgenfritz, Monroe, Mich.; J. M. Irvine and W. Y. Campbell, of St. Joseph, Mo., editors of *Fruit Grower;* Judge E. Stark, Louisiana, Mo.; John C. Chase, Derry, N. H.; Thomas B. Meehan, Dreshertown, Pa.; Robert C. Berckman, Augusta, Ga.; J. C. McHutchinson, New York; F. D. Green, Perry, Ohio; R. C. Stoehr, Dayton, Ohio; W. M. Gaines, Xenia, Ohio; Mr. and Mrs. C. N. Peters, and C. M. Redmond, Troy, Ohio; F. A. Weber, St. Louis, Mo.; E. P. Bernadin, Parsons, Kan.; E. B. Runyan, Elizabeth, N. J.; F. H. Stannard, Ottawa, Kan.; D. Z. Morris, Ontario, Can.; John Craig, editor THE NATIONAL NURSERYMAN; E. W. Knox, San Antonio, Tex.; E. W. Kirkpatrick, McKinney, Tex.; C. L. Watrous, Des Moines, Ia.; H. D. Simpson, Vincennes, Ind.; Mr. and Mrs. W. C. Reed, Vincennes, Ind.; Mr. and Mrs. Jesse S. Butterfield, Lee's Summit, Mo.; A. J. Brown and Son, Geneva, Neb.; Mr. and Mrs. Bohlender, Tadmor, Ohio; J. H. Dayton, Painesville, Ohio.

RAILWAY SERVICE.

The excursionists expressed themselves as highly gratified by the excellent railway service and for the personal solicitation and attention shown by Mr. E. D. Courtney, of the M. K. & T. Ry., Indianapolis, who accompanied the nurserymen throughout the trip. In the southern part he was assisted by Mr. R. B. Courtney, of Dallas.

ORLANDO HARRISON,
President.

FINAL RESOLUTIONS.

Whereas, Our visit to Texas has far surpassed our expectations in interest and pleasure, giving us a better knowledge of the opportunities offered by its great commonwealth among our sisterhood of States, and

Whereas, Our pleasure has been greatly augmented by the untiring efforts of our many Texas friends, therefore, be it

Resolved, By the American Association of Nurserymen, that our heartfelt thanks are due, and are hereby tendered to the Commercial Club and the One Hundred and Fifty Thousand Club, of Dallas; to the Texas Horticultural Society of Texas; to the Texas Nurserymen's Association; to the railroads of Texas, and especially to the Missouri, Kansas & Texas Railway, which certainly did, and still continues to do so much for us; to the Dallas Street Railway, and to the management of the Oriental Hotel for the excellent service rendered us; to Colonel Morse for his graceful hospitality; to Colonel Irvine for his kind words of welcome, and to Mr. Stanley Watson and his efficient committee; and to the ladies, who gave us their gracious presence and their happy smiles.

TRADE POLICY.

Just before the close of the Dallas convention, Harlan P. Kelsey, of Boston, presented the following resolution, which was unanimously adopted:

"*Resolved*, That this Association urges its members to adopt three classes of prices: First, retail; second, wholesale; third, trade. The last-named class to be available only to nurserymen and florists, or those who buy for public plantings; and that they disapprove the practice of advertising trade prices in periodicals.

Resolved, further, That this Association disapproves the practice of sending or quoting trade prices to others than those strictly in the trade, as mentioned above."

The reception at residence of Col. Moss; spacious lawn and handsome dwelling.

THE IMPORTANCE AND BEST METHODS OF BUD AND SCION SUPPLY IN PROPAGATING NURSERY STOCK.

C. C. MAYHEW, SHERMAN, TEXAS.

Of the many important matters for the consideration of every grower of nursery stock, I think there are none of more vital importance than his bud and scion supply. I know that every member of this Association wishes to produce the very best; wishes to deliver to his customers healthy, well-grown stock, which is true to name. To do this we cannot be too careful as to our buds and scions.

J. W. HILL,
Vice President.

If we are absolutely certain that our stock is exactly what we wish it, where are our buds and scions to come from? It is not practical to cut great quantities of buds and grafts from fruiting orchards for the reason that the buds are inferior, expensive to cut and give poor stands. In addition to this, we are decidedly more liable to spread disease than where we cut from younger and thriftier stock. It is not safe to cut from the nursery row because every handling adds risk and uncertainty that we all dislike. I believe the most practical and profitable way for securing an abundance of the very best buds and scions is to grow trees strictly for buds and scions.

To do this in the safest and best manner I suggest the following method. Take peaches for example: Procure the best seed that can be found. Go over them carefully and select the ones which appear to be perfect, small, well-matured. Soak them in some preparation that will destroy all disease germs. Plant them on land suited to Peach. When seedlings are ready to bud, go over them and pull out all weaklings. For buds for stock blocks, select orchard trees to cut from while fruit is ripening. Do not be satisfied with knowing that trees selected is true to name. Select a vigorous fruitful tree that is of the very best strain. There is always the best tree in the orchard, select it, and cut the buds with care, fumigate them, and bud into your prepared stocks. Let these trees stand undisturbed as long as they produce satisfactory buds, and no longer. Then renew your blocks. The same method will apply to all other classes of trees which are grown from bud or graft, except that it may be necessary to begin with seedlings or cuttings. I believe if this simple method was followed out minutely and all trees grown from buds and scions produced in this way, that we would eliminate all possibility of mixed sorts and would reduce diseased stock to a minimum.

In addition to this, our strains will be very materially improved. When we consider the rapidity with which a single tree can be multiplied, there is certainly no excuse for growing trees of questionable worth.

In 1904, I prepared a block 50 x 140 feet, being a small town lot, and on this we grow about 150 trees. This year we cut for force budding

about thirty-five thousand buds and can easily cut as many more choice buds.

In addition to what I have said, I wish to add that I believe it will pay in dollars and cents to grow trees for buds and scions alone. If you select the best seeds, plant in suitable soil, bud with the best buds and never move the trees, I believe you will produce buds or scions possessing greater vitality than where they are grown in other ways.

In addition to this, if you are able to cut without thought of what you are leaving, you can cut the best only. Stock blocks have been in use all over the country for many years. The method of establishing them along improved lines is what we should all labor for.

DISCUSSIONS.

FERTILIZERS—It cannot be said that the convention was noted for the serious and weighty quality of the technical discussions indulged in. A spirit of lightness, and good humor prevailed; however, a few discussions took place which brought out important points. Notable among these was one on fertilizers, participated in by Messrs. Heikes of Alabama, Smith of Concord, Ga., Hale of Tenn., and Craig of New York. Mr. Smith recommended the use of nitrate of soda in small doses; that is to say if 400 pounds were applied during the season; he would use it in two applications of 200 pounds each, instead of all at one time. Mr. Heikes used cotton seed meal and complete fertilizers, while Mr. Hale of Tennessee used also a complete fertilizer for general nursery stock and for peach seedlings half cotton seed and half complete fertilizer. Mr. Craig strongly urged the desirability of maintaining the humus content of the soil and suggested that considerable loss might occur in the employment of commercial fertilizers if the vegetable matter were continually drawn upon without effort to restore it by the employment of green manures.

PLUM STOCKS FOR THE SOUTH-WEST.

Prof. T. V. Munson of Denison gave the results of his extensive experience in testing various types of stocks for plums. He found the ordinary commercial brand unsuitable. Curiously enough he also found that the north central state plum, commonly called "Americana" was not hardy in his locality, although it never or rarely suffers from cold in Iowa and Wisconsin. He recommended peach stocks for plums on light soil and Marianna, for plums to be planted on heavier soils. He was now more favorably impressed with this stock for plums than ever before.

Mr. C. C. Mayhew of Sherman, read an excellent pithy paper on the importance and best methods of a bud and scion supply in propagating. Mr. Mayhew urged the necessity and desirability of exercising great care in selecting scion stock and suggested that these blocks should not be continued indefinitely for this purpose but should be changed and new trees brought in as circumstances and the character of the growth appeared to warrant. Mr. Mayhew's paper is presented in full in this issue of the NATIONAL NURSERYMAN.

The water route to New York caught Thos. B. Meehan, Harlan P. Kelsey and J. McHutchison, who took the Clyde line boat at New Orleans for the metropolis of the East.

A considerable number of visitors took advantage of the courtesy of the railroads to return by Oklahoma City, which greatly added to the pleasure of the trip. Among those who returned by this route were Pres. and Mrs. Emory Albertson, Bridgeport, Ind.; Mr. and Mrs. Reed, Vincennes, Ind.; Mr. and Mrs. Butterfield, Lee's Summit, Mo., and Mr. F. A. Weber, St. Louis, Mo.

AT THE FLOWER CITY.

The nurseries in the vicinity of Rochester are now in gala attire. The rains of the past three or four weeks have fully attoned for the dryness of the fore part of the season, and the trees, shrubs and lawns have taken on such an appearance of health and vigor as it is good to look upon. A visit to the flower city and a drive through its suburbs and parks is entirely worth while.

IMPORTANT TEXAS NURSERIES.

(*Continued from last month.*)

Black, M. G., Mount Pleasant, Texas. Proprietor Vine Hill Nurseries. Specialties: Mulberry, magnolia and peach.

Brownsville Nursery Co., H. G. Stillwell, manager. Brownsville, Texas. Specialties: Grapes, figs, bananas, English walnuts. In the sub-tropical belt.

Green Floral and Nursery Company, Dallas, Texas. Wholesale florists and dealers in nursery stock.

Edgewood Nursery, William Doerrig, proprietor, Dickinson, Texas. Specialties: Roses and evergreens adapted to the South.

East Texas Nursery, Ed. W. Muns, proprietor, Tyler, Texas. Specialties: Ornamental shrubs and plants true to name.

Graham, Geo. & Son, Cleburne, Texas. Specialties: Blackberry and vegetable plants.

Gulf Coast Nursery, E. S. Stockwell & Son, Alvin, Texas. Citrus fruits and ornamentals.

Hereford Nursery, Hereford, Texas, L. S. Landmann, proprietor. Full line of orchard fruits; cherries a specialty.

Hoffman Nurseries, R. H. Hoffman, proprietor, Denton, Texas. General assortment for wholesale and retail trade.

Kerrville Orchards and Nurseries, Lee Mosty, proprietor, Kerrville, Texas Specialties: Selected varieties of orchard fruits.

Madisonville Commercial Nurseries, Ford Bros., proprietors, Madisonville, Texas. General line of stock.

Mally, F. W., Garrison, Texas. Branch nurseries at Nacogdoches and Dickinson. Expert entomologist and consulting horticulturist. Pecans a specialty.

Pearland Nursery, J. F. Leyendecker, proprietor, Frellsburg, Texas. Paper shell pecans; Plymouth Rock hens.

Sylvan Nurseries and Orchards, D. Garner, proprietor, Drift Wood, Texas. General assortment of fine fruits for southwest Texas.

G. Y. Brown, Cedar Hill, Dallas Co., Texas. Erroneously reported "Cedarville" in our last issue.

NOTES.

Messrs. Hartman and McNair, of Dansville, visited Rochester early in July.

Park work, cemetery landscaping, private lawn work is active all over the country, suggesting at the same time the trend of nursery operations.

One of the most attractively planted home grounds in the country is to be found around the offices of the Brown Bros. Company, at Brighton, Rochester. Many handsome specimens of trees and shrubs are included in the collection, and the massing effects secured by the free use of barberries, wiegelas and rhododendrons particularly good. The crimson rambler, which has been extensively used for hedging and as a background for border planting, was at its best the last days of June. A visit to the grounds is a privilege to the person interested in plants

THE EXHIBITS AT DALLAS.

The exhibits were not impressive as to quantity but still there was a considerable variety. We should liked to have seen a larger collection of Eastern Texas fruits, though we understand the season has not been propitious on the whole. Such vegetables and sub-tropical fruits as were shown proved very interesting to northern and eastern visitors. Ornamental shrubs and decorative plants were somewhat lacking in variety and quantity.

The following is the report of the committee appointed by the president to pass upon the display :

REPORT OF COMMITTEE OF EXHIBITS.

Rochester Lithographing Company, Rochester, exhibit of lithographs.

Benj Chase, Derry, N. H., exhibit of labels.

Dayton Fruit Tree Label Co., Dayton, Ohio, exhibit of labels.

Johnson Nursery & Orchard Co., Dallas, Texas, exhibit of nursery trees, showing growth of cherry and peach trees of this year.

J. G. Harrison & Sons, Berlin, Md., collection of apple and pear trees showing second year's growth on ground previously cover-cropped with crimson clover ; excellent growth.

J. Van Lindley Company, Pomona, N. C., May Flower Peach. An early peach—week or ten days earlier than Sneed ; color and earliness its most commendable features. Trial.

H. M. Stringfellow, Lampasas, Texas, an exhibit of three varieties of peaches, smooth and well colored.

Sneed & Wood, Tyler, Texas, an attractive exhibit of Mamie Ross and Ray Peaches, Early Harvest Pear.

F. W. Mally, Nacogdoches, Texas, a number of baskets of Mamie Ross Peach.

Graham & Son, Cleburne, Texas, exhibit of early vegetables, including Cucurbits bulbs, root crops, cabbage and beans ; also cut flowers ; commended.

Ward Dickey Steel Co., Indiana Harbor, Ind., box straps.

D. Yancey & Co., Campbell, Texas, collection of canned fruits and juices.

E. Teas, Joplin, Mo., specimen Golden Privet.

T. V. Munson, Denison, Texas, crate of cardinal raspberries, a variety of purple type, good quality.

Brownwood & West Texas Nursery, W. J. Schulze, Bangs, Texas, cluster apricot.

Waldheim Nurseries and Orchards Co., Boerne, Texas, pears, figs and Walnuts.

Gulf Coast Nursery, Alvin, Texas, samples of fresh citrus fruits.

Elizabeth Nursery Co., Elizabeth, N. J., exhibit of potted shrubs.

J. T. Chestnut, Keene, Texas, Chestnut Dewberry, nuts and pears.

F. K McGinnis, Terrell, Texas, peaches, early apples and canned plums.

E. McMicken & J. E. Rotan, Woodville, Tyler Co., Texas, peaches, potatoes, magnolia bloom and Rosedale Hybrid Biota plums and grapes.

A. O. Strickland, Ottawa, Kansas, adjustable knife supporter for pruning.

Waco Nursery, Waco, Texas, potato and seed planter.

C. F. McNair, Dansville, N. Y., The Dansville Trencher.

Stark Bros., Louisiana, Mo., Stark Tree Digger.

L. F. Dintleman, Belleville, Ills., tree baler.

Verholen Bros., Scottsville, Texas, collection of 1000 gladioli spikes for table decoration at banquet.

Wm. Loomis, Dallas, Texas, collection of native ornamentals including Tamarix, Berberis and Artemesia.

E. S. Stockwell & Son, Alvin, Texas, Mrs. E. Livingston, Nacogdoches, Texas, F. W. Mally, Garrison, Texas, Cape Jasmine buds for members of association.

HERBERT S. CHASE,
H. D. SIMPSON.
JOHN CRAIG,
Committee.

ECHOES OF THE CONVENTION.

The Texans made good.

The clubs and people of Dallas are entertainers of the first order.

No one was fatigued with heavy papers or technical discussions.

Exhibits not quite up to the mark as to quantity but varied in character.

Those who are qualified to speak say that the "lid" was off most of the time.

Papa Josselyn's paper supplied the necessary seasoning for the proceedings of the second session.

The banquet toasts and welcoming formalities added a long string to the northerner's stock of stories.

The local committee were unremitting in their solicitude for the comfort and pleasure of the visitors.

No sweltering weather. Sun hot, yes, but breeze cool. Fine opportunity to sleep—except for the diversions.

The beautiful and fertile plains of Indian Territory and Northern Texas was a revelation to many of the visiting brethren.

The creation of a Supervisor of Traffic and Legislation is a wise move, and the right man has the duties of the office in hand.

Boston is all right but she isn't in it when Pete Youngers throws his weight on the other side of the beam in favor of Detroit.

It was generally voted by the Rochester delegation that Charley Yates chaperoned his party with becoming grace and dignity.

"Papa" Josselyn was more than ever the pater of the convention. Always keep cheerful and you'll never grow old, is his maxim.

Albertson's address was a first rate business-like document. As an executive he succeeded admirably. Things kept moving right along.

It is hereby agreed that when Col. S. E. Moss comes North we will give him a warm time and no mistake. He is of the large hearted order.

The NATIONAL NURSERYMAN'S artist regrets that the photograph of the vice-presidents does such poor justice to their handsome features.

It was a man from Arkansaw this time who satisfied the exacting requirements of the committee in charge of the thrilling badger-dog-fight

The Nurserymen's Protective Association held a harmonious meeting in the Central Hotel on Thursday afternoon, at which the old officers were re elected.

Let us pound away on a uniform standard for grading nursery stock between now and next session. Let us have a report on this topic at that time.

With two such men as Harrison and Albertson working for the Association "things ought to be doing" the coming year. They are of the kind that are known by their works.

The local entertainment committee of Dallas were ably seconded by the ladies of the city, who were indefatigable in their efforts to make visiting ladies and gentlemen entirely at home.

The election of officers was effected in a manner somewhat new to the habits of the association, but after a fashion which was entirely pleasant and harmonious both in execution and result.

The melon-eating contest was the funniest ever. The way those lantern-jawed darkies, with hands tied behind backs, burrowed into the hearts of huge watermelons was a revelation to the amateur watermelon eater of the North.

The election of officers also demonstrated the belief in the American principle in civics, that every man has a right to run for any office he chooses and that no office becomes the particular gift or property of any one person. May the best man always win.

It is unanimously agreed that the ladies are an indispensable part of the convention and there is a strong movement on foot to establish Mrs. G. S. Josselyn (with apologies to Mrs. J.) chaperon-in-chief of such future conventions as she will be good enough to attend.

TREASURER'S REPORT.

C. L. YATES.

Your Treasurer submits his annual report from June 15, 1905, to June 9, 1906.

RECEIPTS.

1905.				
June	15th.	To balance cash on hand	$2,570	74
"	23rd.	Refund of money paid C. P. Asso.	23	
		Contributions for Committee work :—		
Oct.	27th.	Morey & Son	5	
"	"	McNary & Gaines	5	
"	"	I. E. Ilgenfritz & Sons	10	
"	28th.	The Goode and Reese Co	25	
"	"	McHutchinson & Co	5	
"	30th.	The Storrs & Harrison Co	25	
"	"	F. & F. Nurseries	10	
"	"	Charlton Nursery Co	5	
"	"	The Farmer Nursery Co	10	
"	"	D. Hill	10	
"	"	Geo. Kellogg & Sons	5	
"	"	Peters & Skinner	5	
"	"	H. M. Simpson & Sons	10	
"	"	Clinton Falls Nursery Co	10	
"	"	Nichols & Lorton	10	
"	"	Alabama Nursery Co	25	
"	"	A. Willis	10	
"	"	Geo. L. Tabor	10	
"	31st.	Geo. Achelis	5	
Nov.	1st.	Thos. Meehan & Sons Inc	25	
"	"	E. S. Welch	25	
"	"	The Wm. H. Moon Co	5	
"	2nd.	John S. Kerr	10	
"	"	H. J. Weber & Sons	10	
"	"	George Bros.	5	
"	"	Stark Bros. Nur. & Or. Co	50	
"	"	D. S. Lake	25	
"	"	Marshall Bros	10	
"	"	Greens Nursery Co	10	
"	"	Des Moines Nursery Co	5	
"	"	Sioux City Seed & Nur. Co	2	
"	"	L. R. Taylor & Sons	10	
"	3rd.	Youngers & Co	10	
"	"	W. F. Heikes	10	
"	"	Davis County Nurseries	15	
"	4th.	C. W. Stuart & Co	15	
"	"	Ellwanger & Barry	25	
"	6th.	P. J. Berckmans Co	10	
"	"	W. & T. Smith Co	25	
"	"	Oregon Nursery Co	25	
"	"	The Jewell Nursery Co	10	
"	"	N. H. Albaugh Nur. & Or. Co	5	
"	7th.	Texas Nursery Co	10	
"	8th.	E. P. Bernardin	5	
"	9th.	Chase Bros. Co	25	
"	11th.	Bobbink & Atkins	10	
"	"	Geo. Peters & Son	50	
"	"	Pheonix Nursery Co	25	
"	"	G. H. Miller & Son	10	
"	"	Albertson & Hobbs	10	
"	"	Sherman Nursery Co	10	
"	20th.	Washington Nursery Co	5	
"	23rd.	Wild Bros. Nur. Co	10	
"	24th.	Geo. C. Seager	300	
"	27th.	Samuel C. Moon	2	
June	30th.	Interest	24	67
Dec.	30th.	Interest	18	65
1906.				
Jan.	1st.	Montana Nursery Co	5	
"	27th.	Chas. J. Brown, President	25	
Feb.	5th.	Hoops Bro. & Thomas	25	
Mch.	13th.	Wm. Warren Harper	10	
May	12th.	W. T. Hood & Co	17	50
June	7th.	Geo. C. Seager	1,693	89
				$5,427 45

DISBURSEMENTS.

1905.				
June	16th.	Ex. G. G. Hedgcock from St. L. to W. B.	$ 17	30
"	"	Telegrams to Mr. Sanders & Sweet		85
"	"	Hotel Bill Messrs. Moore, Hedgcock & Overstreet at West Baden	12	
"	"	H. P. Kelsey, postage, printing and Stenographer	58	05
"	"	W. S. Hoffman, ex. on Fruit and Flowers W. B.	64	70
"	19th.	Wm. Pitkin, ex. E. Comm. to Buffalo and N. Y.	149	56
June	23rd.	C. L. Yates, salary and postage	$ 50	42
July	5th.	E. Albertson, ex. to Toledo and Chicago,	61	81
"	"	Paid to Central Pass. Agt.	6	
"	"	Geo. C. Seager, Sec'y, salary	500	
"	"	Pettibone Bros. Mf'g. Co., Badges	20	
"	"	Miss E. Jacobson, reporting annual meeting	73	
"	"	Geo. C. Seager, Sec'y, incidentals.	6	75
"	"	J. Horace McFarland, printing for Programme Committee	12	
"	"	Geo. C. Seager, check for postage	10	
"	7th.	Union & Advertiser Co., printing Badge Books	301	
Sept.	1st.	McGuire & Wood, Legal services	100	
"	"	J. H. McFarland, Lantern slides	58	50
"	"	W. C. Reed, ex. Classification Comm.	60	
"	4th.	H. P. Kelsey, expense to Washington	46	47
"	"	Thos. B. Meehan, " " "	26	
"	"	Union & Advertiser, reports of proceedings and postage	275	15
"	13th.	L. R. Bryant & Co	8	
"	"	H. P. Kelsey, bal. for Banquet expenses,	5	50
"	28th.	E. Albertson, printing, stationery, R. R. fare to Dallas, Norfolk, Va., etc.	148	75
Nov.	17th.	Irving Rouse, expense to N. Y. and return on Committee work	22	
"	24th.	W. C. Reed, R. R. fare to St. L. and return on Committee work	20	50
"	"	E. Albertson, fare to N. Y. and return postage, on Committee work	62	50
"	"	Allen L. Wood, fare to N. Y. and return, Committee work	23	36
"	"	Committee of Eastern Nurserymen's Asso. to N. Y. on fr. Classification	92	42
Dec.	11th.	C. L. Watrous, expense to Washington, Committee work	91	20
"	"	McGuire & Wood, Legal opinion	10	
"	26th.	E. Albertson, fare to Washington, etc., Committee work	68	90
1906.				
Jan.	4th.	W. C. Reed, Classification meeting at Louisville, Ky	25	
"	"	M. E. Wolf, bond for Treasurer	18	75
April	18th.	Geo. C. Seager, check for postage	10	
"	26th.	Irving Rouse, ex. to N. Y. on Classification Comm.	26	
"	"	E. Albertson, printing freight tables, letter-heads, etc	118	84
May	12th.	W. T. Hood, expense on Com. work	7	50
		Exchange on checks	3	05
		Balance on hand	2,755	62
				$5 427 45

SECRETARY'S REPORT—SUMMARY 1905-06.

RECEIPTS.

Membership Fees, at $2.00	$ 102.00	
Membership Fees, at 3.00	1347 00	$1449 00
Advertising		540.65
Extra Badges and Books		13.00
Telegraphic Codes		6.75
Exchange		4.89
		$2014.29

DISBURSEMENTS.

November 24, 1905, C. L. Yates, Treasurer	$ 300.00
June 7, 1906, C. L. Yates, Treasurer	1693.89
Exchange,	20.40
	$2014.29

COMPARATIVE.

1894	$1120.00	1900	$1262.95
1895	1050.05	1901	1345.81
1896	1123.20	1902	1459.00
1897	1007.30	1903	1499.95
1898	1143.24	1904	1563.50
1899	1164.97	1905	1720.37

It should be noted, in connection with the above report, that there is included no item of receipts for advertising in the annual report as has been the case in previous years. This item amounted to something over $100 and the total increase on the same basis of the receipts for the year just closed would have been about $400. As the matter now stands, with the revenue derived from advertising in the annual report eliminated, there is an increase over the receipts of previous years of nearly $300.00.

GEO. C. SEAGER,
Secretary.

PRESIDENT ALBERTSON'S ADDRESS.

Fellow members of the American Association of Nurserymen :

In the years past, this chair has been filled by men who were able to instruct, entertain and amuse you with addresses filled with wisdom, oratory and wit. But after listening to and being so well entertained by these hearty Texas welcomes, and the most appropriate responses which so fitly voice our appreciation, I shall not do more than express my thanks to you for the honor you have shown me, and for your ready support and co-operation in the work of the past year, and asking your careful attention in the work now before us in this our 31st annual meeting, and craving your indulgence for any mistakes that may be made by the chair, I will now call your attention to a few points of interest in the work of the past year and our expectations for the incoming.

In reviewing the year past I think all of us can look back on it as one of the best and most prosperous in the history of the nursery business, and judging the future by the past and present indications the coming year promises even better returns. Then why should we not all come here with thankful hearts for these blessings, the best and most friendly regard for each other, and leave here with renewed energy and determination that the coming year shall show another step forward toward the model nurseryman, and a shortening of the chain that should bind us closer together ?

During the past year the work of your committees has been very heavy, requiring the sacrifice of much of their time and energies in carrying forward their work ; but this has been cheerfully given, only a suggestion as to the work to be done being necessary. Though I regret to have to say again that it has been hard to get some members to join in and help with the work as they should to make the best success of it, and hope such a criticism may not be necessary in future.

From the reports of your Legislative and Transportation Committees, you will learn of what has been accomplished already by them, the great benefits secured to the trade throughout the country and of work yet to be done which, in the Legislative Department especially, as it relates to more uniformity in laws relating to inspection, tags or certificates and their adoption throughout the country (a feature to be greatly desired), has only begun and may take years to complete, but if followed up will certainly be accomplished. There are other legislative matters that should receive attention, such as free seed distribution by the government, and the possibility of its extension to plants, trees, etc. (though I hope the nurserymen have already acted in the effort that has been made to defeat appropriation for same), State license laws, etc. In the Transportation Department the work is farther along, but there is yet more that can be done very profitably, and if we retain the benefits of what has been done we shall have to keep a close and constant watch to avoid a reversal of some of the advantageous changes that have been made.

To the gentlemen directing this work, especially Messrs. Watrous and Pitkin of the Legislative, Reed, Rouse and McHutchison of the Transportation Committee, we owe a large debt of gratitude, and to them or whoever may continue this work our prompt and hearty co-operation. To Mr. Kerr and others of the programme committee and the live entertainment committee of the Texas Association you are indebted for the short but practical and spicy programme and the social and other entertainments provided for you, which will certainly keep you busy. I trust you may return to your homes with many pleasant memories of your trip to Texas, and that this may not be the last time that our Association may reach out into new territory with our meetings, thus extending our influence and at the same time broadening our own minds by coming in contact with the active citizens of these sections.

We have with us a delegation of entomologists, sent here by the National Horticultural Inspectors' Association to meet with us and consider matters of mutual interest, especially as relates to the harmonizing of our work with theirs and securing the adoption of more uniform methods of inspection, issue of certificates, use of universal tags or certificates, and possibility of securing adoption or approval of same by states now requiring that their special State tags be used. It is certainly desirable that we should at this meeting take time to fully consider these matters with them and arrange that this work may be followed up carefully. Our Association should be represented at as many of the national associations, where matters of interest to our business are considered, as possible, that we may keep in touch with them and that more friendly relations may be cultivated.

We should also be represented at the different meetings of the Railway Freight Committees, to cultivate their acquaintance and to look out for our interests where propositions affecting our business are under consideration ; and it would be an advantage if this representation could be the same from year to year, as we have learned from the experience of the past two years that before you can secure the most favorable consideration you must win their confidence and convince them that interests are mutual and that you are not asking something for nothing.

A TRAFFIC MANAGER.

As the work of the Association has been followed up in the past two years, it has opened up far beyond our expectations, and our ability to handle it properly in connection with our own business ; yet I think you realize that some valuable results have been obtained, and the necessity of continuing the work. To do this to best advantage, and realizing it is far too great a burden to ask of any member, I would recommend the employing by the Association of some one who can give his entire time to this work, one who knows the needs of our business and can plan and lead out in the work, looking after the details, being assisted and advised by our committees. To make a success of it he must have our hearty support and co-operation.

Our legislative work should be thoroughly organized, the conditions in each state studied, and a good member selected in each state to watch and report to the one in charge of this work any proposed legislation affecting our business, that proper action might be taken promptly. It should also be the aim to effect such changes in existing laws as may be necessary to secure uniformity and relieve the business of some of the burdens now imposed which cause interruptions to shipments, losses on same, and add detail to our work.

True, such a man will cost a neat salary and must have plenty of money for expenses, but is he not worth it, even though he were only to watch and hold for us the advantages already secured, which certainly have resulted in a saving of more than $50,000 a year to the trade ?

Last year you, by motion, authorized the Transportation Committee to employ a traffic man, but no funds were provided to meet such an expense, and in four months we found our treasury almost empty and not sufficient funds to meet the expenses of our committees, etc., necessitating a call on a large number of our leading members for contributions, the result of which will be shown in our treasurer's report. And right here I want to personally thank the donors for this expression of confidence and approval. No promises were made you last year of a cheap administration or an increase in the surplus, but we have done our best in trying to accomplish some good results in the interests of the trade and in building up our membership, believing it would meet with your approval.

A GUARANTY FUND.

Certainly the time has now come when some steps should be taken that will provide sufficient funds to refund these donations and to carry on the work. How shall it be done ? An increase in membership fee to $5.00 would provide part of it, but not enough. Are there not some who can well afford to guarantee $100, others $50, and some $25 out of the savings on their freight bills alone ?

If a man is employed, as I have suggested, who gives all his time to the work of the Association, looking after our traffic, legislative and other interests, keeping an open office throughout the year, it would probably increase our expenses nearly $5,000 a year. The question is, can you invest this amount more profitably elsewhere, or can you afford to longer delay such action ? On the basis of $50,000 a year saved this would be a profit of 900 per cent. net.

STANDING COMMITTEES.

Now a suggestion in regard to appointment of our standing committees, excepting the executive. In the past it has been the custom to name these from different and distant sections of the country, the result being they seldom got together to consider matters of importance. Much time was lost in correspondence, the work neglected, or the larger part of it done by the chairman, or the one who might take it up. I would suggest that instead of appointing full committees,

one member be appointed to look after each department of the work and that he may be authorized to call to his assistance such help as he might need at any time, leaving it with him to choose such as he might think could do the most good and from the section most convenient to the work to be done, and that members so called should consider themselves a part of his committee and acting for the Association.

In case some one was employed to follow up the general work of the Association, these heads of departments with your president should be his advisors and assistants.

STANDARD GRADES FOR NURSERY STOCK.

Another matter which I think should have your careful consideration is the establishing of a standard grade for all kinds of nursery stock. As it is now, there is by far too great a difference in the grading of different growers and in different sections. Certainly definite rules for grading might be made and approved or adopted by this Association and known as standard grades, that would describe fully just what was required to come up to standard.

I trust you may find something of interest in these suggestions that may lead to more effective work in future, and as we have but one session a day I ask that you give your undivided attention to the business before us for this short time. [Applause.]

REPORT OF THE TRANSPORTATION COMMITTEE.

W. C. Reed, Vincennes, Ind., Chairman.

Your humble servant having been appointed Chairman of the Transportation Committee, attended the meeting of the Western Classification Committee at Charlevoix, Michigan, from July the 13th to 18th, accompanied by our President. The attendance at this meeting was the largest in the history of the Western Committee, there being between 75 and 100 representatives of the different lines of business to be heard. This made a long tedious wait until our turn came, which was on the fifth day. However, we found the committee very courteous, and willing to give us all the time wanted. Mr. Albertson had taken a sample of peach seed, seedlings, scions and waste excelsior so that we could explain to them exactly what these products were and what we wanted.

We are pleased to report the following changes in classification granted: From a 20,000 flat minimum on all cars to a 16,000 minimum on cars 36′ 6″ and under. 20,000 lb. minimum cars over 36′ 6″ and under 45′ 6″. Cars over 45′ 6″ 24,000 lb. minimum.

The items, such as grape vines, and cuttings, Osage orange plants, willow cuttings and scions have been eliminated, throwing them all into one classification as nursery stock. This will save a great many errors in billing.

Peach seed, or peach stones, car loads 5th class, L. C. L. 4th class minimum weight 24,000 lbs.

Waste excelsior was given a classification the same as baled shavings, which is the same as saw dust. Car loads 24,000 minimum, class E. L. C. L., 3rd class.

This change on excelsior made a difference of $70.00 per car from St. Louis to Salt Lake City, Utah.

TRANS-CONTINENTAL FREIGHT BUREAU.

The Trans-Continental Freight Bureau controls the Pacific Coast business and uses the Western Classification but file exceptions in many cases. However, after going over the matter carefully with Mr. Mace of the Frisco R. R., I failed to find any exceptions on nursery stock.

In a letter from Mr. R. H. Countis, Chairman of the Trans-Continental, under date of April 5th, 1906, he says: "In reply, beg to inform you that the rates and minimum car load weights on nursery stock, trees and shrubbery from eastern shipping points to the Pacific Coast terminals are subject to provisions of the current Western Classification."

SOUTH-WESTERN TARIFF COMMITTEE.

This committee controls the State of Texas, a part of Louisiana, Indian Territory, and Oklahoma, using the Western Classification. But in the case of nursery stock filed exceptions, still holding to a 20,000 minimum.

IOWA RAILWAY COMMISSION.

From letters received from several of the Iowa nurserymen, we find that there is a State Commission that still holds to a 20,000 minimum on business within the State. On May the 9th I received a letter from Mr. S. D. Lake stating that he thought before another season the matter would be corrected. However, I have written the Chairman of the Committee urging the adoption of the Western Classification. I also wrote to Mr. Hill asking that he call on the committee in Des Moines.

SOUTHERN CLASSIFICATION.

On December the 4th the writer went to Louisville, Kentucky, and appeared before the Southern Committee on December the 5th. At this meeting we asked them to give us the same as the Western, but owing to the large number of claims to be considered our petition was postponed until a later meeting, at which time they granted us a 16,000 minimum with a sliding scale of about the same as the official. We also asked them to change the release valuation to $5.00 per hundred instead of $3.00. This they did not see fit to do.

On March the 14th, I received a letter from President Albertson enclosing a letter from Stark Bros. Nursery & Orchard Co., stating they were not getting the benefit of the reduction on shipments from Huntsville, and that they had taken the matter up with the A. G. F. A. of the Southern R. R., he stating that whichever was the cheapest rate would apply, holding that the release valuation of $3.00 per hundred pounds, 6th class in car load lots, did not apply under the new minimum of 16,000 lbs. Under their ruling it would advance the rate $15.20 on the car load. I at once took the matter up with Mr. McGovern, of Atlanta, Chairman, asking him to please give Mr. Campbell, A. G. F. A., a correct interpretation of classification as we understand it. His reply of March the 19th was as follows: "Your favor of the 16th inst. at hand and trees and shrubbery in car loads, at owner's risk of loss or damage by heating, freezing, etc., should take fourth class rating, subject to the minimum car load weight of 16,000 lbs. But if released to a valuation of 3c. per pound then the proper rating to govern is 6th class."

Owing to the many changes in classification in the different territories and the wrong interpretation liable to be placed on same by the different R. R. agents, it was thought best to issue a bulletin or shippers' table, giving the correct classification in the different territories, and in the latter part of January, in association with President Albertson, spent two days getting up the matter ready for publication.

This bulletin seems to have filled a long felt want if it may be judged by the extra copies called for. Many nurserymen have written for from four to ten copies, each stating they wished them to file with their R. R. agents. We are also thankful for the kind words of appreciation received from many.

NEW METHOD OF SHIPPING LARGE TREES.

I desire to call attention to a new method of shipping large shade trees, adopted by the Jewell Nursery Co., of Lake City, Minn. I received a letter from President Albertson on March the 14th, enclosing correspondence from the Jewell Nursery Co., stating that in the new classification they did not find a rating on trees with roots boxed, tops wrapped or baled in straw, they stating that they had secured this classification a few years ago. The former rating was 3rd class on such packages or bales, each weighing 100 lbs. or over. Having taken the matter up at once with Mr. Becker, Chairman, who, under date of March the 21st, advises that this item was eliminated, the committee thinking there was very little shipping done this way, however, the rating having been satisfactory his office would see that their next supplement provided for such a rating to go into effect at once.

OFFICIAL CLASSIFICATION.

Through the efforts of President Albertson, Mr. Rouse and other members of the Eastern Nurserymen's Association, who were added to our committee by President Kirkpatrick, we secured, last October, a reduction of 15% from second class on trees in boxes. This was after a long hard fight with a large proportion of the Official Committee itself.

On January the 1st, the Chief Inspector raised the classification on import stock from trees to plants. This matter was taken up at the

official meeting April the 3rd in New York by Mr. Rouse and Mr. McHutchinson, as it was impossible for the writer to leave home at that time, owing to the rush of packing season. Through their efforts the Official Committee definitely established a classification of trees, on import stock, so we hope there will be no further trouble such as we have had in the past three years in the raising of freight rates on import stock.

These two items, I believe, are all we have been able to accomplish yet with the Official Committee, but believe it stands us in hand to go ahead with the work and if properly followed up hope we will get trees in boxes back to 3rd class, which would mean a saving of about 10% per cent. off of the present rating, which is 2d class less 15%.

On November the 13th, the writer went to St. Louis and after holding a conference with Mr. Lincoln, of the Missouri Pacific, and telling him what we wanted, he gave me a letter of introduction to his successor, Mr. Peabody, who also gave me a letter to Mr. Cale, Chairman of the Southwestern Committee, asking that our petition be placed on docket for consideration at the next meeting. On the following day I appeared before the Committee and after explaining what the Western Classification Committee had done for us, asked them to adopt the Western Classification as it applied to our business. After due consideration the Committee reported favorably and the change was ordered to take effect December the 8th, 1905.

This change, however, does not apply to shipments originating within the State of Texas to points within the State, Texas having a State Railway Commission which still holds to a 20,000 minimum. It will be up to the nurserymen of this State to secure the adoption of the Western Classification, which I think can be done if you go after it in the right manner.

TRANS-MISSOURI COMMITTEE.

There is also a Trans-Missouri Committee, but after looking the matter up carefully with several railroad officials in St. Louis, fail to find any exception to the Western Classification.

CLAIMS.

I would advise all nurserymen to be very careful in the filing of claims. Do not put your valuation too high even though you be at a greater loss than the claims you file. Treat the railroads as you would like to be treated. I have been reminded quite often the past year by officials of claims that seemed unreasonable to them, showing that they do not forget these things when you are asking for favors.

In behalf of the railroad men would say, we have found these men a pleasant class of gentlemen to deal with and as a rule they are ready and willing to give us plenty of time and consideration if matters are properly presented and if your claim has any merit it will have due consideration.

REPORT OF COMMITTEE ON PRESIDENT'S ADDRESS AND ON REPORT OF TRANSPORTATION AND LEGISLATIVE COMMITTEES.

The special committee appointed to consider the President's address and the reports of the Transportation and the Legislative Committees respectfully reports as follows:

1. We recommend, in considering the report of the Legislative Committee, that it continue its excellent work looking toward the adoption of uniform State inspection laws and the provision of a uniform tag for interstate shipments, and that it also endeavor to arrange a basis of harmonious action with the State entomologists.

2. The extremely efficient work of the Transportation Committee has already commended itself to the Association, and it is returned with hearty approval; a criticized paragraph relating to the handling of import shipments having been eliminated at the request of this committee.

3. The President has suggested in his admirable address that a chairman be selected for each of the appointive standing committees, with power to call for help from any member of the Association who shall thereupon be considered a member of that committee. This recommendation we endorse.

4. With the important suggestions of the President, regarding traffic manager, we concur, and therefore recommend to the Association as follows:

5. That the annual dues of the Association be raised to $5.

6. That if a guarantee fund of $2,500 can be raised, your committee recommends the employment of a working representative, as suggested by the President; and your committee is gratified to be able to report, after consultation, that President Albertson, by whose devoted efforts and invaluable work the Association has so greatly profited, financially and otherwise, has consented to serve in that capacity. For his compensation, your committee recommends that $1,200 be appropriated, and that a sum not exceeding $1,200 additional be appropriated for the expenses of the work for the ensuing year.

Report adopted.

STATE VICE-PRESIDENTS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

Alabama—Herbert S. Chase.
Arkansas—W. G. Vincenheller.
Colorado—A. W. Ferguson.
California—F. W. Power.
Connecticut—C. R. Burr.
Delaware—D. S. Collins.
Florida—Aubrey Frink.
Georgia—R. C. Berckmans.
Illinois—Geo. Winter.
Iowa—J. W. Hill.
Indiana—H. D. Simpson.
Kansas—E. P. Bernardin
Kentucky—H. F. Hillenmeyer.
Indian Territory—W R. Collins.
Louisiana—A. K. Clingman.
Maryland—Howard Davis.
Massachusetts—H. P. Kelsey.
Michigan—C. A. Ilgenfritz.
Minnesota—W. M. Underwood.
Mississippi—E. W. Crowell.
Missouri—R. J. Bagley.
Nebraska—G. A. Marshall.
New Hampshire—John C. Chase.
New Jersey—E. Runyan.
New York—John B. Morey.
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Ohio—John Siebenthaler.
Oregon—J. B. Pilkington.
Oklahoma—J. A. Lopeman.
Pennsylvania—J. H. McFarland.
South Dakota—Geo. H. Whiting.
Tennessee—E. W. Chattin.
Texas—C. C. Mayhew.
Utah—P. A. Dix.
West Virginia—B. T. Southern.
Virginia—W. T. Hood.
Wisconsin—Mrs. Z. K. Jewett.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., JULY, 1906.

AMERICAN ASSOCIATION OF NURSERYMEN.

President, Orlando Harrison, Berlin, Md.; vice president J. W. Hill, Des Moines, Ia.; secretary, Geo. C. Seager, Rochester N. Y.; treasurer, C. L. Yates, Rochester, N. Y.

Executive Committee—Emery Albertson, Bridgeport, Ind; J. H. Dayton, Painesville, Ohio; F. H. Stannard, Ottawa, Ill.

Transportation—Emery Albertson, Bridgeport, Ind.; J. W. Hill, Des Moines, Ia; A. L. Wood, Rochester, N. Y.; C. T. Smith, Concord, Ga.

Tariff—Irving Rouse, Rochester, N. Y.; H. T. Jones, Elizabeth, N. J.; H. P. Kelsey, Boston, Mass.

Legislation—C. L. Watrous, Des Moines, Ia; W. T. Hood, Richmond, Va.; N. W. Hale, Knoxville, Tenn.; R. C. Berckmans, Augusta, Ga.; William Pitkin, Rochester, N. Y.

Programme—John S. Kerr, Sherman, Tex.; H. S. Chase, Huntsville, Ala.; C. J. Brown, Rochester, N. Y.

Publicity—Ralph T. Olcott, Rochester, N. Y.; John C. Chase, Derry, N. H.; Stanley H. Watson, Houston, Tex.

Exhibits—J. H. Skinner, Topeka, Kas.; J. C. Hale, Winchester, Tenn.; C. C. Mayhew, Sherman, Tex.

Editing Report—J. Horace McFarland, Harrisburg, Pa.; J. C. Maloy, Rochester, N. Y.; George C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN ASSOCIATION OF WHOLESALE NURSERYMEN—President, Peter Youngers, Geneva, Nebraska; vice-president, A. Willis, Ottawa, Kansas; secretary, E. J. Holman, Leavenworth, Kansas.

SOUTHERN NURSERYMEN'S ASSOCIATION—President, Orlando Harrison, Berlin, Md; vice-president, John A. Young, Greensboro, N. C.; secretary-treasurer, Chas. T. Smith, Concord, Ga. Meets at Chattanooga, Tenn., third Wednesday in August, 1906.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

THE DALLAS CONVENTION

The thirty-first annual meeting of the American Association of Nurserymen has come and gone. It marks another mile-post in the history of the Association. The memories which cluster round it are pleasant memories. The visiting members constantly realized that they were in the hands of their friends. The whole affair was tinctured with the spirit of good cheer and hospitality. The reception courtesies were dispensed with whole-hearted generosity. Those who attended felt that they were welcome, and that it was a privilege to be present. Texas weather was on its best behavior; the face of the land was fair to look upon, and the impressions carried away were all in favor of the great Lone Star State. No special mentions are required where all worked with a will for a common end—the comfort and pleasure of their guests. We voice the general sentiment of our friends from the East and North when we say that "Texas is all right."

THE TRAFFIC MANAGER

The creation of a salaried office in the Association marks a distinct and radical departure in the conduct of the business of the Association. Yet it is but a natural out-growth of the vigorous and effective work of Ex-president Albertson and the Transportation Committee. It has been estimated that changes in classification, secured by the efforts of these gentlemen, will bring about a saving of at least $50,000 a year to the nurserymen of the United States. Now, it must not be expected that an equally good showing can be made the present year, but it is important, as chairman Reed has pointed out, that we hold what we have secured. This can only be done by continued watchfulness. If the nurserymen do not work for their own interests, it is not to be expected that the railroads will take care of them from purely philanthropic motives. Those industries are conserved best which are championed by their own patrons. We therefore congratulate the Association on making the move, and in being fortunate enough to secure the services of one who has shown by his ability and devotion to the cause that he is the right man for the place. Nor should we overlook the generous and efficient assistance rendered by Mr. Reed, chairman of the Transportation Committee. The vote of thanks tendered by the Association to this gentleman was richly deserved.

OUR NEW PRESIDENT

There are men who are noted as propagandists; who can incite, enthuse and promote a cause by pen and speech. There are others who are often more successful by reason of their innate resourcefulness, their ability to work quietly, persistently towards a definite end. Both types have their special fields of usefulness. In the long run, the persistent worker is the man who effects permanent reform. We are glad to feel that in electing the Honorable Orlando Harrison, of Berlin, Md., president, the American Association of Nurserymen chose a man of the latter

type, and one who will make and leave a worthy record of his term of occupancy. THE NATIONAL NURSERYMAN, in extending him hearty congratulations, wishes him to understand that the pages of this journal are at his disposal for the furtherance of all projects which make for the good of the Association.

DETROIT FOR 1907

Boston and Detroit were in the running for next year's place of meeting. The advantages of Boston were ably presented by J. Horace McFarland, J. McHutchinson and others, but the argument went down before the weighty attack of Pete Youngers, who stood for Detroit and a business meeting. Of course, Boston was all right, had more points of interest and educational value than any other city in the United States, but in the interests of the Association—more particularly its membership—Mr. Youngers forcefully advocated Detroit as a central location. And so the vote went. We may, therefore, expect a convention with less of the social amenities and more of business characteristics in the year nineteen hundred and seven. It is well that we should have some of both. The next meeting will be the business man's innings.

THE FIELD OF THE TRADE PAPER

While the scope of the trade paper is primarily to promote strictly financial and professional enterprises, its range is constantly widening. It is no longer restricted to the purely monetary and trade phases. Neither should this be the case. On the contrary, in our opinion, it should deal with things much larger than mere trade happenings. It should be more than a retailer of news. It should be a forum of the constituency it represents, and labors for. We would wish our patrons to view the columns of THE NATIONAL NURSERYMAN in this light. We do not expect to be used as a club by those who would even old scores, nor, on the other hand, do we wish to do all the talking and most of the "knocking," although we are not prone to side with every new idea just for the sake of being agreeable.

One of the functions of a trade paper, perhaps one of its most important functions, is the preaching of the doctrine of living prices. There is a strong, essential, underlying principle in this doctrine. It is like the old maxim, "Honesty is the best policy," it is many sided in its application; for low prices mean cheap goods, in the long run. Grow good stock and stand together for prices which will enable us to grow more good stock and leave the producer a fair profit. This is the only sound basis for a stable business. THE NATIONAL NURSERYMAN has no sympathy for the company which engages in the business in one locality for a short time, with the avowed purpose of working the territory for all it is worth, and then moving on. This is the type of business which degrades the profession of the nurseryman and casts aspersions on those who are connected with it.

REFLECTIONS ON NURSERYMEN

It is a trite saying that men are always more interesting than things. The study of the lives and work of great men should form an important part of the reading of the youth of the land. We are fond of studying the individual, of noting his peculiarities, his weak points, his strong points, and the lessons to be derived therefrom. The recent convention at Dallas furnished an unusual opportunity for getting in touch with the men who are making horticultural history in this country. It is true that the middle West was more largely represented than the East, but in this newer country there is greater opportunity for the strong man to leave his impress upon the civilization of the land. These nurserymen are the men who are molding public taste in the matter of luxuries which appeal to the palate as well as to the eye. These represent the business men of the agricultural world. Yet they have a mind for the thing that beautifies, as well as the product that brings the golden dollars. Their business, while offering much of instruction and educational value, has features that are not highly agreeable. The lack of exactness about the whole thing causes disagreements. They are sometimes derided, often doubted; but in the long run the honest man is the respected citizen in his community at the end of the chapter. The nursery business, as we have stated many times in these columns, is just as dignified, cultured, and elevated as nurserymen are disposed to make it. There is as great opportunity for real culture, for educational advancement, as in any vocation of life, and the tendencies and influences of the things worked with are all for good. The class of men who met at Dallas represented an important group of workers, making for the health, happiness and culture of mankind.

HORTICULTURE IN BOSTON

There is a nice little floricultural journal published under the name of *Horticulture*, in the city of Boston. Now, because this journal wears this comprehensive title, we are not to infer that it attempts to cover all that the fields of pomology, vegetable growing, and the manufacture of these products, in addition to floriculture, include. Rather, it chooses to confine its attention to one branch, floriculture, but occasionally makes an excursion into the allied fields, where it roves with delightful abandon.

We like our contemporary for many reasons, chief among these being that it has opinions, and that it ventures to express these opinions. Many journals are literary phonographs. They repeat and exploit, but never originate and rarely criticize. *Horticulture*, of Boston, has a voice which it raises when the spirit moves, and the spirit does move, if affairs Bostonesque are meddled with by outsiders.

For instance, THE NATIONAL NURSERYMAN is taken to task, in a recent issue, for stating that the pedagogics of landscape gardening can only be conducted by a study of the theory of design in its broadest sense. This statement is characterized by our contemporary as a "ponderous chunk of pedantic profundity." What do you think of that? The humble scribe of THE NATIONAL NURSERY-

MAN slowly recovered, after a desperate effort to absorb sonorous alliteration.

But our friend means well, despite his "languidge." This is his way of saying that he does not agree with us, which, of course, is all right. We, on the contrary, fully agree with the quoted statement of our contemporary that "There is really a native school of horticulture about Boston, and even foreign gardeners are obliged to yield to its influence." This assertion is strongly supported by the character of the article referred to. We have not the slightest criticism to offer with reference to the excellent intentions of the Boston gardeners. They are, indeed, to be congratulated on their good intentions. This type of extension course will no doubt bring admirable results, but on the other hand, we have a very wholesome respect for the profession of the landscape gardener, and have no hesitation in repeating our previous statement, that it implies much more than is ordinarily recognized under the term. We would distinguish between gardening and landscaping. We would make the artistic side the possession of those who, by reason of thorough and conscientious training, have mastered the art and practice side of this most fascinating pursuit.

One of the greatest difficulties experienced by the landscape architects is the securing of competent men to execute plans. This is a most important side of landscape work. It implies a knowledge of the adaptations of plants and the peculiarities of soil and climate; and here we are directly in the field of the gardener as much, or more so, than that of the architect. Here is where the trained gardener comes in, and nowhere in the country can be found a larger number of expert practitioners than in and about the city of Boston. Let us keep the material and planting side distinct from the theory, design and engineering branch; and we will at once recognize the opportunity and scope for the talents of men in both branches.

The last sentence in the editorial of our contemporary is entirely too vague to be discussed. It states that "anyone who thinks to feather his nest by adopting a supercilious attitude towards the gardeners, shows mighty poor judgment." We fail to see how a supercilious attitude would feather his nest, and cannot catch the drift of the whole sentence. It is so unlike the usual straightforward statements of the editorial column of *Horticulture*, that it looks distinctly out of place and in need of further elucidation.

SOUTHERN NURSERYMEN.

CHATTANOOGA, TENN., AUG. 15, 1906.

Our southern friends are reminded of the coming of this important convention. The officers of the Association are leaving no stone unturned in their efforts to prepare an instructive and attractive program. Secretary Smith promises the best meeting on record, and President Harrison is equally confident. This historic ground cannot fail to gather a large group of nurserymen. Consult program on another page of this issue.

STORM DAMAGE AT GENEVA, N. Y. GROSSLY EXAGGERATED.

Our readers have doubtless seen an account, emanating from the Rochester press, of the hail storm which visited the Geneva, N. Y., section of the country on June 10th.

This report is so exaggerated, and injury to the region so likely to result, that we feel that some correction should be made. The reports which appeared in late issues of Rochester papers were extremely misleading and generally overstated. The report stating that damage to the amount of $100,000 befell the W. & T. Smith Company, is absurd, and it will be apt to cause a considerable injury to this firm as, naturally, nurserymen would not feel like placing their orders where they might expect to get a lot of hail-struck stock. It is true that the hailstones were exceptionally large and broke a great deal of glass, but the wind was not strong and lasted for only a short time, so that the damage to nursery stock was not so great as it had been in some previous storms.

Some nurseries about Geneva were not injured at all, and others sustained but a slight damage. In the W. & T. Smith nursery some blocks are practically uninjured, while other blocks will have to be cut down. Small fruits, ornamental trees, shrubs, roses, vines, etc., are practically untouched. It is a pity the inveterate newsmonger does not season his dispatches with a few grains of common sense.

THE SEASON IN ITS EFFECT ON STOCK.

APPLE SEEDLINGS.

The apple seedling districts of Kansas have been visited with dry weather to such an extent that apple stocks promise to be limited in quantity and poor in quality. Complaints of poor seed are also numerous; all this makes for a restricted area and an advance in prices.

MIDDLE WEST.

W. N. SCARFF, OHIO: The plant of nursery stock about New Carlisle is rather moderate. Season dryish—late rains have materially improved conditions.

H. M. SIMPSON & SON, VINCENNES, IND.: Cherry stocks have behaved irregularly. There has been a lack of desirable uniformity; growth moderate; stand good where stocks were in good condition.

J. W. HILL, DESMOINES, IA. The season has been an excellent one for growth. Rain well distributed; stock flourishing.

IN THE EAST.

ROCHESTER: Various correspondents report unusually dry weather in May and early part of June.

NELSON BOGUE, BATAVIA, N. Y.: Season fairly dry. Budded stock has done well. Transplanted stock has required careful attention.

DANSVILLE: Reports favorable.

SOUTH AND WEST.

HUNTSVILLE, ALA.: HERBERT S. CHASE reports a very satisfactory season in most respects, all rooted stock has grown excellently.

W. F. HEIKES: The somewhat dry weather in fore part of season retarded early growth. Delayed rains have greatly improved conditions. Stock now doing well.

TEXAS NURSERY CO., SHERMAN: The season has been one of abundant rainfall, and stock has done well.

GLEN ST. MARY NURSERIES, FLA.: A warm winter followed by a rather dry spring has not been favorable to the orange crop but timely rains have given good growth to nursery stock.

SMITH BROS. CONCORD, GA: On the whole, an excellent season although it was a trifle dry in the latter part of May. Recent rains have put stock in fine shape.

AMERICAN ASSOCIATION OF NURSERYMEN.

LIST OF MEMBERS REGISTERING AT THE SECRETARY'S OFFICE, ORIENTAL HOTEL, DALLAS, TEXAS.

F. T. Ramsey, Austin, Texas.
Mr. and Mrs. Geo. T. Josselyn, Fredonia, N. Y.
Harlan P. Kelesy, Boston, Mass.
S. A. Bayless, Son and Daughter, ——
W. G. Calvert, Memphis, Tenn.
B. Brown, Ft. Worth, Texas.
A. F. Bernard, Painesville, Ohio.
G. A. McKee & Sons, Salona, Texas.
Storrs & Harrison Co., Dayton, Painesville, Ohio.
O. N. Phillips, Rockdale, Texas.
J. L. Deering, Wichita Falls, Texas.
B. B. Fields & Son, Fremont, Neb.
J. A. Lopeman, Enid, Okla.
W. W. Twitty & Sons, Blanche, Tenn.
W. A. England, Pentsville, Texas.
M. G. Black, Mt. Pleasant, Texas.
Marshall Bros., Arlington, Neb.
A. C. Marshall & Co., Welfingwater, Neb.
W. G. Vincenheller & Son, Fayetteville, Ark.
J. J. Barnes, Station E., Cincinnati, Ohio.
N. C. Dicky, Indian Harbor, Ind.
J. W. Schnette, St. Louis, Mo.
J. M. Hutchison, Richmond, Va.
J. T. Chesnut, Keens, Texas.
G. N. Skinner, No. Topeka, Kans.
G. R. Burr, Manchester, Ct.
M. A. Morgan, Knoxville, Tenn.
C. D. Wenger, Dayton, Va.
J. N. Vesson, Clyde, Texas.
The Apple Specialist, Quincy, Ill.
R. C. Berckmans, Augusta, Ga.
J. W. Shados, Winchester, Tenn.
L. F. Dintelmann, Belleville, Ill
J. H. Richmond, Genesee, Ill.
Moseley Hale, So. Glastonbury, Conn.
F. R. Griesea, Lawrence, Kans.
C. L. Yates, Rochester, N. Y.
M. B. Fox, Rochester, N. Y.
Geo. H. Whiting, Yankton, S. D.
C. G. Mayhew, Sherman, Texas.
Glenn Cliff Nursery, J. Marion Miller, Winchester, Tenn.
J. L. Cooper, Winfield, Kansas.
Bates Bros., Floral, Kans.
E. Welch, Shenandoah, Iowa.
O. L. Welch & Co , Fremont, Nebr.
J. Horace McFarland, Harrisburg, Pa., representing Horace McFarland Co., Harrsiburg, Pa., and Suburban Life, Boston, Mass.
E. R. Taylor, Topeka, Kans.
Shenandoah Nurseries, D. S. Lake. Shenandoah, Iowa.
W. G. Campbell, Jr., St. Joseph Mo.
Orlando Harrison, Berlin, Md.
John Watson, (Jackson & Perkins Co.) Newark, N. Y.
W. F. Balkes, Huntsville, Ala.
Hilton Hass, Huntsville, Ala.
Charles J. Maloy, Rochester, N. Y.
Thomas B. Meehan, Dreshertown, Pa.
John S. Rogers & Sons, Fordtown, Ark.
Thos. Maloney & Sons., Danville, N. Y.
Wilman Newell, Baton Rouge, La.
J. W. Hill, Des Moines, Iowa.
The Elizabeth Nursery Co., Elizabeth, N. J.
Easterly Nursery Co., Cleveland, Tennessee.
Cleveland Nursery Co., Cleveland, Okla.
The Fruit Grower, James M. Irvine, Editor, St. Joseph, Mo.
K. F. Edmondson, Perry, Iowa.
John Fraser, Jr., Huntsville, Ala.
G. Parkert, Ossian Spring, Miss.
J. D. Johnson, Dallas, Texas.
W. E. Mcknight, Dublin. Texas.
Lewis Roesch, Fredonia, N. Y.
V. J. Schulse, Boggs, Texas.
J. B. Pilkington, Portland, Ore.
Guy L. Stewart, Atlanta, Ga.
Jim Parker, Tecussan, Okla.
F. W. Poser, Salem, representing Oregon Nursery Co., Chico Nursery Co.
A. J. Hyra, Sylvia, Tenn.
Shawnee Nurseries, Shawnee, Okla. (S. N. Taylor.)
N. Bogue, Batavia, N. Y.
American Florist, Chicago, Ill.
Globe Nurseries, N. C. Crown, Briston, Va.
W. M. Wood, Briston, Va. Tenn.
G. N. Nickels, Bristol, Va. Tenn.
J. W. Tetivick & Son, (J. W. Tetivick) Blackwell, Okla.
Lewis Chase, Rochester, N. Y.
L. N. Dalmont, Kalo Center, Texas.
David S. Morris, Brown's Nurseries, Canada.
Blair & Kaufman, Kansas City, Mo.
A. Willis, Ottawa, Kans.
F. D. Green, Perry, Okla.
H. E. Moody, New York City.
W. E. Galeeny & Sons, E. Galeeny, Vienna, Ill.
Howell Nurseries, Knoxville, Tenn.
D. J. Muncey, Lockney, Texas.
S. L. Boone, Hereford, Texas.
A. J. Brown, Geneva, Neb.
Guy A. Brown, Geneva, Neb.
L. P. Landman, Hereford, Texas.
J. C. Miller, Rome, Ga.
J. H. Connell, Dallas, Texas.
McNary & Gaines, J. W. Gaines, Xenia, Ohio.
H. M. Simpson & Sons, Vincennes, Ind.
C. C. Sanders, St. Louis, Mo.
R. I. Smith, Atlanta, Ga.
La. Crop Pest Commission, Baton Rouge, La.
C. Sonderegger, Beatrice, Neb.
J. E. List, Cohutta, Ga.
A. L. Luke, Wynnewood, I. T.
Aubrey Frink, Glen St. Mary, Fla.
John Craig, Ithaca, N. Y.
Cooper Moncreif, Winfield, Kans.
Mr. and Mrs. A. K. Clingman, Keithville, La.
E. A. Henley, Greenville, Ind.
W. E. Copeland, Oakland, Kans.
Knoxville Nursery Co., A. I. Smith, Knoxville, Tenn.
The Southern Fruit Grower, Chattanooga, Tenn.
Geo. Winter, La Salle, Ill.
Baker Bros., Ft. Worth, Texas.
W. N. Scarff & Wife, New Carlisle, Ohio.
C. L. Watrous, Des Moines, Iowa.
E. W. Kirkpatrick, McKinney, Texas.
Edward W. Knox, Van Alstyne, Texas.
E. P. Bernardin, Parsons, Kans.
J. I. Harrison, Cleveland, Tenn.
A. J. Fletcher, Cleveland, Tenn.
Albertson & Hobbs, Bridgeport, Ind.
J. Van Lindley, Pomona, North Carolina.
J. S. Butterfield, Lees Summit, Mo.
J. C. Chase, Derry, N. H.
Dayton Fruit Tree Label Co., Dayton, Ohio.
Tennessee Wholesale Nurseries, J. C. Hale, Winchester, Tenn.
C. W. Crowell, Nich, Miss.
Commercial Nursery Co., H. Nicholson, Winchester, Tenn.
F. E. Good, Springfield, Ohio.
T. V. Munson & Son, Denison, Texas.
Will B. Munson, Denison, Texas.
Grange Judd Farmer, Edwin C. Powell, Chicago, Ill.
C. W. Cannon, Lawrence Nurseries, Ft. Madison, Iowa.
G. D. Knight, Lawrence Nurseries, Lawrence, Kans.
T. H. Stannard, Ottawa, Kansas.
J. S. Kerr, Sherman, Texas.
Stanley H. Watson, Houston, Texas.
Southern Nursery Co., Winchester, Tenn.
Winchester Nursery and Orchard Co., Winchester, Tenn.
W. C. Reed, Vincennes, Ind.
I. E. Ilgenfritz Sons Co., Monroe, Mich.
W. F. Ilgenfritz, Monroe Nursery, Monroe, Mich.
W. F. Bohlender, Tadmor, Ohio.
Harrison Nursery Co., York, Neb.
Galbraith Nurseries, Fairbury, Neb.
Alabama Nursery Co., Huntsville, Ala.
John F. Sneed, Tyler, Texas.
F. A. Weber, Nursery, Mo.
H. J. Backes, Humphrey Nursery Co., Humphrey, Nebr.
C. N. Peters, Troy, Ohio.
C. M. Redmond, Troy, Ohio.
John Siebenthaler, Dayton, Ohio.
Henry B. Chase, Huntsville, Ala.
C. R. Bun, Manchester, Ct.
F.W. Maberoy, Council Bluffs, Iowa.

CHERRIES IN ILLINOIS.

I am now between grass and hay. A fine apple crop in sight for me in my orchard. I was too busy with cherries to go to Dallas.

E. G. MENDENHALL.

PEAR BLIGHT IN CENTRAL NEW YORK.

The unusual amount of heat and moisture in Central and Western New York have developed an acute attack of pear and apple blight in several places where the disease had previously gained a foothold. There is no remedy but cutting and burning.

Business Movements.

THE LATE MR. RHOTERT SUCCEEDED BY MR. H. FRANK DARROW.

"On and after July 1st, 1906, the business formerly conducted by Mr. Aug. Rhotert at No. 26 Barclay Street, New York City. will be continued by H. Frank Darrow, who has been associated with Mr. Rhotert in business for nineteen years. The foreign connections and also post office and street address will remain unchanged."

RETIRE FROM BUSINESS.

Hoover & Moore, also G. W. Hoover, successor to the above firm, went out of business some time ago. Their P. O. address, while in business, was Antlers, and Silt, Colorado.

G. W. Hoover.

The National Nurseries, Lawrence, Kansas, E. H. Balso, Propr. have recently acquired additional city property on which to erect a large packing shed. This move is made imperative by the rapid growth of the business.

C. H. COGSWELL, VIRDEN, ILL.

Has retired from business on account of advancing years.

PROPAGATING MANGOES.

Reasoner Bros. of Oneca, Fla , are making a specialty of the mango. In a recent communication Mr. E N. Reasoner says. "I have just lately removed 35 Mulgoba "grafts" from the three small parent trees and then immediately put on about 85 more to take off in August. One of my fine Indian mangoes is holding fruit and I am counting very much on it ; it has not borne in the Western Hemisphere before. We have the beginning of the rainy season and all vegetation is simply booming. Cantaloupes, watermelons, peaches, plums, early pine-apples, etc., are all in season now and very fine around here."

KNOWS A GOOD THING WHEN HE SEES IT.

Please find enclosed check for another year's subscription. Your paper is a great medium for nurserymen ; through its columns we know what other nurserymen are doing and we find it thoroughly up to date and full of life and business. We read every word—even the ads.

Ellsworth Brown & Co.

NO FEE FOR FILING NURSERY LICENSE IN WEST VIRGINIA.

In filing my license in the different counties as required by law in this State one of the county clerks presented a fee bill and refused to fill the license until the bill was paid. I submitted the matter to the State Tax Commissioner and I am in receipt of a letter from him stating there is no fee connected with filing of nursery license in the different counties. This may be of benefit to others doing business in this State.

R. R. Harris.

DISSOLUTION OF PARTNERSHIP.

Please note in your coming issue, the dissolution of partnership of Dean & Billingsly at Greenwood, Ind., and the continuance of business by Hiram P. Dean, with city office, at N. Ill. and 34th St., Indianapolis.

Hiram P. Dean.

ANNOUNCEMENT.

To the Nursery Trade :

We have recently sold to Charles, Henry and Robert Chase, a branch nursery, established three years ago, near Mercury, Alabama. These brothers have sold their interest in this company to Herbert Chase. This change is made for business reasons, with a feeling of good will all round. The members of the new firm have been connected with this company since its organization ; they know their business ; are reliable, you can place orders with them knowing they will be executed to your satisfaction. In case you buy from both firms, or from any other Huntsville nursery, and want all loaded together, to make car lots, we will arrange that among ourselves. Huntsville nurserymen work together ; if there is a business on the face of the earth that will stand clean, liberal competition, it is the wholesale nursery business.

The new firm have a splendid plant, they will handle your business in good shape.

Yours truly,

ALABAMA NURSERY COMPANY,

Herbert Chase, Treasurer.

Huntsville, Alabama, June 25th, 1906.

ANNOUNCEMENT.

To the Nursery Trade :

The officers of this new Corporation have sold their holdings in the Alabama Nursery Company to its Treasurer, Herbert S. Chase, purchasing that branch of their business located five miles east of Huntsville on main lines of N. C. & St. L. and Southern railways and known as the "Mercury Plant". This plant consists of 400 acres new land, complete equipment including new modern brick storage house, and its first crop of two year stock maturing the coming Fall.

Our officers are Henry B. Chase, President ; Robert C. Chase, Treasurer ; Charles F. Chase, Secretary. Our corporate title is Chase Nursery Company, address Huntsville, Alabama.

We have been connected with Alabama Nursery Company since its organization ; our "bringing up" therefore has been of the highest standard, and we shall endeavor to live up to it.

Will thank you to place our name on your mailing list and send us your catalogues. We mail our first Trade List in August.

Yours very truly,

CHASE NURSERY COMPANY.

Huntsville, Alabama, June 25th, 1906.

CHARLTON NURSERY COMPANY ENLARGES.

The Charlton Nursery Company has purchased the retail nursery business of George Moulton & Sons, taking over agents, plate books, retail orders, good will, and all the assets belonging to the retail nursery business done by Moulton & Son.

The Charlton Nursery Company is close corporated and incorporated under the laws of the State of New York and doing business in this city.

The officers are : Jos. Charlton, Pres.; Edward Osborne, Sec.-Treas. and Gen. Mgr. Mr. Osborne has been very successful in managing the retail nursery business of this corporation and by taking over the business of George Moulton & Son the company expect to have a hundred thousand dollar sale the coming fall.

We wish the Charlton Nursery Company abundant success in their new departure, which they are bound to have under the vigorous management of Eddy Osborne.

WATER TOWER AT THE ELM CITY NURSERY CO.'S PLANT STRUCK BY LIGHTNING.

On the night of July 3rd, about 11 o'clock, during the severest part of the electrical storm that visited Edgewood, N. J., the Elm City Nursery Co 's new tower was struck, the roof practically ruined, and in the current's passage downward one peculiar antic it cut up was the melting of several feet of brass chains connecting with one of the valves. It is quite probable that the buildings were saved by the lightning seeking the tower which is close by.

ISSUE SOMEWHAT LATE.

We present our apologies to our readers for the lateness of this issue. It has been delayed owing to a variety of causes which we need not detail but were good and sufficient. We trust that the matter will be sufficiently interesting to condone for its tardiness.

Doings of Societies.

OFFICERS OF TENNESSEE NURSERYMEN'S ASSOCIATION.

President, J. C. Hale, Winchester.
Vice-President, T. W. Brazelton, Winchester.
Secy.-Treas., G. M. Bentley, Knoxville.
Sectional Vice-Presidents:
East Tenn., A. I. Smith, Knoxville.
Middle Tenn., H. N. Nicholson, Winchester.
West Tenn., S. Burns, Sylvia.

The Summer Meeting of The Wisconsin State Horticultural Society will be held at Baraboo, August 29th. It will be a one day session devoted largely to a discussion of the value of native shrubs, vines and flowering plants for cultivation.

The establishment of park systems in villages and small cities will be treated by a competent landscape gardener.

Liberal premiums will be offered for both native and cultivated flowers in bloom at that time.

F. Cranefield, Secretary, W. S. H. S.

PROGRAM OF SOUTHERN NURSERYMEN'S ASSOCIATION.

Lookout Mountain, Tenn., August 15 and 16, 1906.
Orlando Harrison, President.

The following is a part of the program of the Southern Nurserymen's Association which is to be held at Lookout Mountain, Lookout Inn, Tenn, August 15th and 16th.

The following persons will take part in a *five minutes' talk*, or paper and no more time will be allowed unless by a vote of the convention :

1st. Give closer attention to business and think for yourself.
2nd. See that the Government spends more money for experimenting for nurserymen and seedsmen and gets out of the free distribution of trees and seeds.
3rd. Remedy for slow collection.—B. S. Borne, Pomona, N. C.
4th. The retail nurserymen's success or failure.—John A. Young, Greensboro, N. C.
5th. How nurserymen can realize more money for their trees.—C. M. Griffith, Jacksonville, Fla.
6th. Better business methods in extending credit to smaller nurserymen and dealers.—W. F. Heikes, Huntsville, Ala.
7th. Practical lessons by failures.—E. W. Chattin, Winchester, Tenn.
8th. Uniform standard of grading nursery stock the world over.—W. A. Easterly, Cleveland, Tenn.
9th. Preparation and planting nursery stock, and early care.—A. W Newsom, Knoxville, Tenn
10th. Spraying the nursery with what, when and why.—H. A. Morgan, Knoxville, Tenn.
11th. Growing better nursery stock.
12th. Pruning apples and peaches and other stock in the nursery.—W. T. Hood, Richmond, Va.
13th. Cultivating nursery stock.
14th. Adoption of a rule to sell all trees in the South on thirty or sixty days' time.
15th. Tree dealers and means of eliminating unscrupulous ones among them.
16th. Should the large orchardists get the benefit of the wholesale prices on trees?—R. C. Berckmans, Augusta, Ga.
17th. How best to handle local trade at the nursery.
18th. Best plan for grading, packing, shipping and caring for trees. Herbert Chase, Huntsville, Ala.
19th. Growing pear and cherry trees, on what kind of soil.—J. W. Shaddow, Winchester, Tenn.
20th. What fertilizers should nurserymen use for best results?
21st. What is the proper treatment of strawberry for growing plants?
22nd. Should nurserymen grow more ornamental stock or educate customers to plant valuable trees that will produce fruit for profit?
23rd. Who is making money in the nursery business?—Mr. Harrison, of Fletcher & Harrison, Cleveland, Tenn.
24th. What business improves a country more than a nurseryman's, and how can he better improve our surroundings?
25th. Is inspection of nursery stock of advantage or disadvantage?—J. Van Lindley, Pomona, N. C.
26th. Are the license laws now enforced constitutional?
27th. Apple blight through the middle South.—A. W. Newson, Huntsville, Ala.
28th. Objections to the present state inspection laws.—R. J. Ragby, New Haven, Mo.
29th. The bad habit of replacing trees to the planters.—G. M. Black, Mt. Pleasant, Texas.
30th. The need of closer union among nurserymen.
31st. Some practical points on how to prevent root-knot.
32nd. On what kind of stock should cherry be budded or grafted?
33rd. Why nurserymen should be good citizens.—Chas. T. Smith, Concord, Ga.
34th. How to prevent aphis from damaging nursery stock and how to prevent twig blight in the apple orchard.—F. N. Downer, Bowling Green, Ky.
35th. Should the immigration law of Alabama, (Gen'l Act 1903, p. No. 244) be adopted by our Southern States?—N. W. Hale, Knoxville, Tenn., Congressman from Tenn.
36th. Upon what reasonings depend the determination of a nurseryman to plant and bud one million apple seedlings?—G. A. Harrison, Berlin, Md.
37th. The best time to introduce a new fruit.
38th. The spirit that overcomes difficulties, with example.—S. A. Farris, Winchester, Tenn.
39th. Are Nurserymen planting too many peach seed?—J. C. Hale, Winchester, Tenn.
40th. A commercial pecan orchard as an investment.—S. W. Peek, Hartwell, Ga.
41st. On what kind of stock should cherry be budded or grafted?

Is it advisable for nurserymen to sell the small grades of one-year peach trees?

What kind is the best to plant in the way of ornamentals for the Southern States?

Why did peach buds fail to start out the past spring with a mild winter?

When is the best time to bud peach to get the best stand of buds and the strongest trees?

What legislation is needed or should be discarded?

What should be the relations between a fruit grower and a nurseryman?

Has fumigation been advantageous to the nurseryman and fruit grower?

Arrangements will be made for an exhibit and nurserymen are invited to bring trees, vines or plants, nursery tools, sprayers or anything that will interest nurserymen.

The Spray Pump Companies are invited. The Niagara Gas Spray Co., of Middleport, N. Y., has consented to exhibit its Gas Sprayer.

We hope other spray pump people will exhibit with us, as well as manufacturers of tree balers, planters, markers, etc.

The entomologists of all the Southern States will be asked to attend the convention, no special subject will be allotted them, but they are expected to be present that the nurserymen may ask them a few practical questions, as the nurserymen are anxious that they have the co-operation of all the entomologists, pathologists and inspectors of the various Southern States. This is a business meeting and we want your presence.

TEXAS STATE HORTICTLTURAL SOCIETY.

TEXAS NURSERYMEN'S ASSOCIATION WILL MEET AT COLLEGE STATION JULY 10, 11, 12, 1906.

The above societies will meet in joint session at College Station this month. Among the papers to be presented are the following :

The Joint Session will be called to order by President Edward W. Knox.

Address of welcome by Prof E. J. Kyle, College Station. Response by Sam H. Dixon, Houston.

Annual Addresses by Presidents E. K. Kirkpatrick and E. W. Knox. Apple Growing in Texas—F. W. McGinnis, Terrell, and S. L. Boone, Hereford. The New Fruit Belt—W. H. Chisholm, Sherman. The Importance of Ornamental Stock Propagating, Best Classes and Best Methods—J. F. Sneed, Tyler. Oriental Fruits in Texas—W. A. Yates, Brenham.

Drainage in the Coast Country—R. W. Holbert, Arcadia ; W. A. Stockwell, Alvin. Horticultural Development in Southwest Texas—C. A. Schattenburg, Boerne. The Nurseryman's Relation to the Civic Improvement Movement—F. T. Ramsey, Austin ; E. W. Knox, San Antonio. The Status of the San Jose Scale and the Citrus Fruit Insects in Texas—Prof. A. F. Conradi, College Station. Report of State Nursery and Orchard Inspector Prof. A. W. Orr, Arp. The Best Type of Apple Tree for Southwestern Orchards—B. L. Adams, Bonham ; C. C. Mayhew, Sherman.

Comparative Quality of Grapes—Prof. T. V. Munson, Denison. Echoes from the Dallas Convention—F. W. Malley, Garrison ; Stanley H. Watson, Houston. The Outlook for Citrus Fruits in Texas—Harvey C. Stiles, Corpus Christi The Growing on the Plains—L. P. Landrum, Hereford ; D. J. Muncey, Lockney.

Fruit Growing in Henderson County—E. M. Henderson, Athens. The Marketing Problem—Sam H. Dixon, Huston. Orchard Soils—Dr. G. S. Fraps, Chemist, College Station. Recent Changes in Transportation Rates of Nursery Stock—Col. A. K. Clingman, Keithville, La ; F. W. Malley, Garrison, Texas. The Scope and Influence of Civic Improvement—Mrs. M. M. Jouvenat, Sherman.

The Outlook for Fruit Growing in Texas—In ten-minute talks by E. W. Kirkpatrick, F. W. Malley, Jno S. Kerr, H. M. Stringfellow, C. Faulkner, D. H. L. Bonner and others.

The convention will close with a business session of the Horticultural Society.

NATIONAL NUT GROWERS.

The fifth annual convention of the National Nut-Growers' Association is called to meet at Scranton, Miss., October 31st and November 1st and 2nd, 1906. The outline of program promises a meeting of unusual practical interest. Jackson county, Miss., of which Scranton is the county seat, enjoys the distinction of being the place of origin of many of the largest and finest pecans known, while her area of orchards of bearing budded and grafted trees surpasses at present all other sections of country producing the pecan.

The date selected promises to show the orchards with bearing crops ready for harvesting.

All interested are cordially invited, and since nuts enter so largely into domestic economy, the ladies are especially invited, as some of the most noted authorities will speak on the food value and home uses of nuts. Later announcements will give particulars regarding program, railroad rates and other matters of general interest.

J. F. WILSON, Secretary. E. W. KIRKPATRICK, President.

WESTERN ASSOCIATION OF NURSERYMEN.

MID-YEAR MEETING, COATES HOUSE, KANSAS CITY, MO., JUNE 11, 1906.

3 P. M. Called to order by President Youngers for the special purpose of considering the applications for membership of Watrous Nursery Co., Des Moines, Ia., Kelsey Nurseries, St. Joseph, Mo., German Nurseries, Beatrice, Neb., Cooper & Moncrief, Winfield, Kans., Harrison Nursery Co., York, Neb., Geo. H. Whiting Nursery, Yankton, S. D. and James Truitt & Sons, Chanute, Kans., which were referred to a committee consisting of Messrs. Hill, Willis and Kaufman who reported favorably and thereon were duly elected to membership. Messrs. Hill, Willis and Welch were appointed a committee to notify the elect and invite them to the evening session, whereupon adjournment was had until 8 o'clock P. M.

8 P. M. President Youngers in the chair. Minutes of annual meeting read and approved. Treasurer's report read showing receipts, $123.65, expended $48.46, in treasury $75.19. Approved.

Roll call showed twenty-four firms present. Applications for membership from Galbraith Nurseries, Fairbury, Neb., Crescent Nursery Co., Council Bluffs, Ia. and B. E. Fields & Son, Fremont, Neb. were presented, referred to committee, favorably recommended and unanimously elected to membership.

The matter of national control of insect pests was introduced and discussed. The sentiments of the association being that nursery inspection should be remedied by a uniformity throughout the states under central authority. Captain Watrous gave a history of failure to secure this end by congressional enactment in the past and looks for favorable consideration in the future. The furtherance of the matter was entrusted to the following committee, Messrs. Watrous, Willis and Stark.

A two days meeting will be held in December. Adjournment.

Though the session continued informally until 10 P. M. when the association and friends to the number of about fifty, hied their way to the train, leaving at 2:15 A. M. for the National Convention, at Dallas, Texas.

E. J. HOLMAN, Secretary.

CHERRY TREES

We offer both one and two year old Cherry trees for the coming fall and spring. Nurserymen who have never seen our one year trees cannot appreciate their quality and worth. Can also furnish some Plum and Peach and other stock. Let us figure on your wants.

KNOX NURSERIES,
H. M. Simpson & Son, Vincennes, Indiana

COMMERCIAL NURSERY CO.
WINCHESTER, TENN.

offers to the trade 50 thousand line 2-year Apple; 40 thousand year old Peach, June buds, Cherry, Grapes, Raspberries, Seedlings Pecans from fine nuts. Clean stock; it will pay you to get our prices or come and see us.

Commercial Nursery Co., Winchester, Tenn.

PEACH SEED

We are headquarters for PEACH SEED and will have our agents gather them from every section where Wild Mountain Natural Seed can be found. Quality and prices cannot be discounted.

Will issue our Annual Circular shortly, but as your name may not be on our list would suggest your writing us. Samples and prices cheerfully furnished.

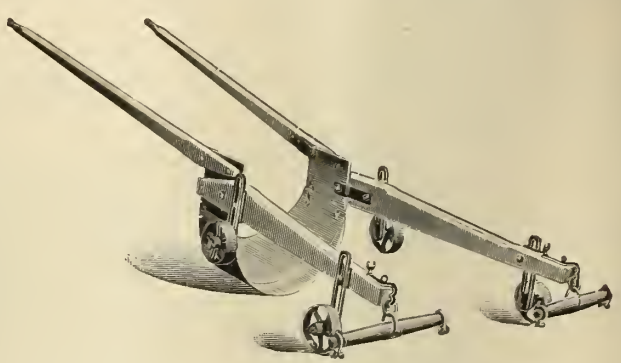
CHERRY SEED. Will have limited quantity; crop 1906.

Long Distance C. & P. 'Phone Wolfe "1321."
P. O. Box "451."

W. W. WITTMAN & CO.
117 Hanover St., BALTIMORE, MD.

1857 L. G. BRAGG & CO. 1906

Growers of No. 1 Nursery Stock, also manufacturers of Bragg's Common Sense Tree Digger and Jumbo Cultivator. The Jumbo does fine work from start to finish. The operator rides over the tops of 3 and 4 year trees and the



Digger gets all of the roots at the rate of 20 to 40 thousand trees per day.

L. G. BRAGG & CO.
KALAMAZOO, MICHIGAN.

It's Very Vexatious

to bud with poor Raffia and, when you encounter a batch that's bad beyond service, it's like adding insult to injury to find that you have no redress. How different with our "Red Star" brand! You can do better work and it's a pleasure because the strands are soft, tough and pliable.

Perhaps you, too, are aware of the uncertainty of Raffia quality To dispel your fear and secure your confidence, we guarantee to replace any "Red Star" brand that proves inferior. Could we do more to merit your order?

Another importation just arrived. Order may be filled same day as received.

Order Your Fruit Seeds Early.

Mazzard Cherry. Remember, how last season, there proved a shortage in the harvest. Perhaps you were one of the late comers whose orders we could not fill. The seed is collected from trees in our locality. It is positively the best available. Order now.

Mahaleb Cherry. That planters secure better results from our seed is undoubtedly due to the special way we have of handling it. Little of the germinating properties are lost from the time we collect the seed until we place it in your hands. Regular orders from the big growers speak well for the quality of our seed. Prices ready.

Myrobolan Plum. We have an excellent source—not known to many—from which we procure the seed. Low in price, but tip-top in quality. Prices ready soon. Better write now, as we may not have much to offer.

Thomas Meehan & Sons, Inc.
Box T, Dreshertown, Penna.

SUBURBAN LIFE

JULY
1906

SUBURBAN LIFE
Vol. III, No. 1

July 1906

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A COPY

Here's the Fellow You Want!

The man who forsakes the city, with its crowded flats and narrow streets, for suburban life, with its cozy home and acre of land, is the fellow you ought to know.

The chances are that he has a good income and plenty of money to buy the things he wants.

What are his almost immediate "wants"?

I. He wants Ornamental Trees and Shrubs.
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III. He wants a few Grape-Vines and some Blackberries.
IV. His wife wants Roses, and lots of them.
V. She also decides to have a Strawberry bed.

All this means business—cash business—at good profits for the wide-awake nurseryman who is alive to his opportunities.

"SUBURBAN LIFE," the magazine, is the only periodical in America devoted exclusively to suburban living.

It reaches over 40,000 suburban families every month.

It is one of the most beautiful magazines published, being printed entirely on coated paper by McFarland, and it has the McFarland quality all through.

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SUBURBAN LIFE is a rattling good medium for the general advertiser—but **it's a perfect cinch for the nurseryman.**

Try it and see. Write to any of the following addresses for sample copies and rates. Address,

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Associate Editor

16 State St., Boston, Mass.
FRANK A. ARNOLD
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156 Fifth Ave., New York
DAVID D. LEE
Eastern Advertising Manager

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

PAN-HANDLE NURSERIES,

GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach

IN CAR LOTS.

We also grow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendrons, etc., etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

J. K. HENBY & SON.

Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted, can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.

A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
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RUSS. MULBERRY 8-12, 12-18, 18-24 inch, 2-3 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
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Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right; we make them ourselves.

GERMAN NURSERIES,

Carl Sonderegger, Prop. Beatrice, Neb.

THE RIGHT DOWN PRACTICAL

thing is what you want and what we want you to want—the house with all there is in up-to-dateness and a certainty that it's a laster—not only freer from repairs—but easier to repair. That's our iron frame green house.

There's just as much good sense in preparing for easy repairs as in freedom from repairs—and quite as much economy. Send for iron frame folder—it's full of good sense and sound tried out facts.

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GREENHOUSE DESIGNERS and MANUFACTURERS,
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OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ESTABLISHED 1868.

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(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals Car lots a specialty.

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PEONIES

List of 100 varieties will be sent on request.

J. F. ROSENFIELD, West Point, Nebr.

Order Peony Plants Now

Complete List ready for distribution.

Ship September first. Stock guaranteed true.

It means something to carry away a silver cup and nine first prizes out of twelve awarded at the Exhibition of the American Peony Society. That is what we did.

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The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes, $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

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Louisville & Nashville R. R.

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Oakland Nurseries

will make special prices for immediate orders on PEACHES and APPLES in car lots for late fall delivery.

We also have a fine lot of Shrubbery, including Berberry Thumbergii. Don't fail to send us your want list for SPECIAL PRICES.

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4,000,000 PEACH TREES

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TENNESSEE WHOLESALE NURSERIES,

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Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

1-YEAR-OLD 2½ IN. POTS. **ROSES** 2-YEAR-OLD 4 INCH POTS.

Baby, Cr. and Y. Ramblers; Laing, Wood, Diesbach, Dinsmore, Masson, Charta, Caprice, Lambelin; P. & W LaFrance, B. Brown, Meteor; Notting, Chromatella, etc.
105 best sorts growing for 1906 1907.

Baby, Cr. and Y. Ramblers; Neyron, Dinsmore, Laing, Diesbach, Charta, Wood, Masson, Plantier, etc.
Extra strong own roots.

Leedle Company, EXPERT ROSE GROWERS, Springfield, O.

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Fruit and Ornamental Trees, Plants, Vines, Shrubs, Roses, Evergreens.

The most complete assortment we have ever grown, at lowest prices. Planters send list of wants before placing your order. Dealers' orders billed to their entire satisfaction. Agents Wanted. Mention National Nurseryman.

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Position to manage and develop landscape department for progressive nursery, by man of wide experience with some of the best landscape men of New England. Competent to handle all branches. Successful salesman. Good executive ability. Four years with present employer. Address,

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An experienced propagator of shrubbery and general ornamental stock; must understand the business thoroughly and come well recommended.

Good position to the right party.

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Good Opportunity

Energetic young man, with thorough ornamental nursery training including hardy herbaceous plants, may find it to his advantage to correspond with us. Permanent position to right party. State experience, references and salary expected. Position now open.

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JUNE BUDDED PEACH

ELBERTA, CARMAN, GREENSBORO

and all leading varieties guaranteed true to name

General Line Nursery Stock at Wholesale Prices

BEST OF REFERENCES FURNISHED.

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OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

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Any Lengths up to 63 Inches.

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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

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All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

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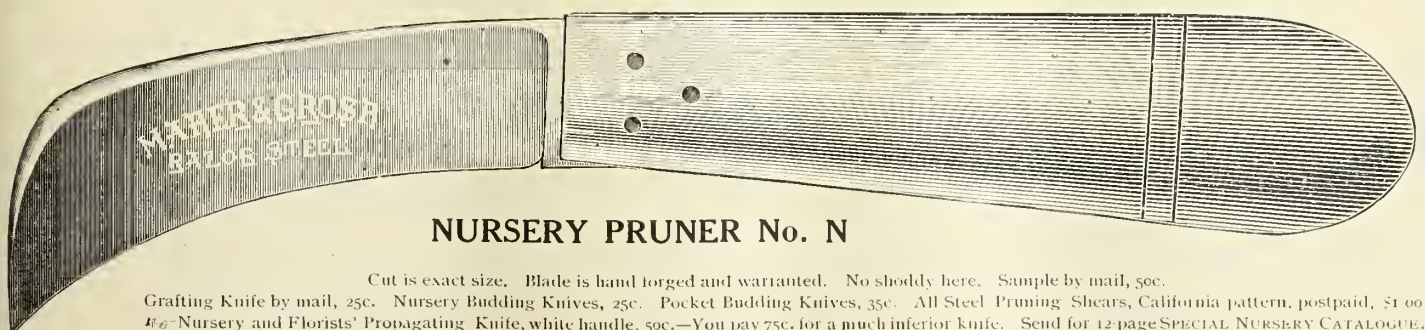

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ARE NOW BOOKING ORDERS FOR

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Old Dominion Nurseries, Richmond, Va.
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Std. Pears—Nice assortment, Keiffer especially.
CALIFORNIA PRIVET - Fine Plants.
And General Line of Nursery Stock.

We have on hand about 200 Bushels Natural Peach Pits, crop 1905, and expect in due season our usual supply of this year's crop. We have been handling these seeds for years with universal satisfaction.

Correspondence solicited.

HEALTHY TREES

At BARGAIN PRICES.

APPLE	PEACH
CHERRY	PEAR
PLUM	QUINCE

We also have at all times an especially fine line of ORNAMENTAL TREES, SHRUBS and EVERGREENS. Will also have in quantity the following Forest Seedlings: BLACK LOCUST, CATALPA, SPECIOSA and OSAGE ORANGE

Tell us what you want to buy and we'll make our prices interesting

The Geo. Peters Nursery Co.
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Western Reserve Nurseries,
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carry a most complete line of the wants of the trade, including a fine assortment of Roses of all kinds, Maples, Silver, Norway, Ash Leaf and Weir's Cut Leaf, Elms, Catalpas, Mt. Ash, European, Cut Leaf Weeping Birch, Magnolias, Double Lilacs, tree form, and Snow Ball tree form, Clematis, Hydrangea, tree and bush form, American Sweet Chestnuts, Car. Poplars, Currants, Grapes, Rhubarb, a general good assortment of shrubs of nearly all kinds and sizes.

Evergreens, Arbor Vitæ, Siberian, Pyramidalis and Tom Thumb, Pines, Austrian, Scotch and White, Norway Spruce, etc., etc. All Evergreens two and three times transplanted and very fine.

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We also have an elegant line of Perennial Plants in a full assortment of varieties, consisting of the newest and most popular sorts, on which we are able to make special inducements for early orders.

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Apple, Cherry, Peach, Plum and Kieffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded None better.

Osage, Russian Mulberry and **Soft Maple Seedling.**

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

Shade Trees

Elm, Soft Maple, Box Elder, Weir's C. L. Maple.
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APPLE GRAFTS. All styles made to order.

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NORTH TOPEKA, KANS.

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I am ready to book your order for

PACKING MOSS

It is of best quality to be had and will give satisfaction in every way. Prices will be furnished on application. Orders also will be shipped promptly.

Address, **BERT MITCHELL, Nalley Junction, Wisconsin.**

Dresselheim Nursery and Fruit Farm For Sale

with tools and live stock. All growing Nursery Trees and Stocks, with a lively home trade ten years old, also a good Boxing and Bailing trade.

Will Sell Cheap.

This is right in the cleanest place in the whole United States. Shipping facilities cannot be beat. A correspondence or visit is solicited.

C. L. DRESSEL, Frankfort, Mich.

An Old, Reliable and Responsible Nursery Company

with an exceptionally large general stock of standard fruits, ornamentals and evergreens; with good packing grounds, buildings and cellars; located on two lines of railroads in Central Iowa, will sell their entire stock, real estate and all property with the good will of the company. Anyone wanting a good location and a good stock will do well to correspond and look us up.

Address all communications to
D. F., care of National Nurseryman.

I HAVE TO OFFER

Orange Quince Buds

true to name. These are very fine. I trust you will favor me with an order, which will be shipped promptly. Write for prices.

JOHN TWOMEY, Geneva, N. Y.

Dreer's Herbaceous Pæonies

We will have to offer for September and October delivery an immense stock of Home Grown Pæonies in popular standard varieties, a special list describing these and quoting interesting prices will be issued early in July. If you are interested drop us a line and a copy of same will be mailed to you as soon as issued.

HENRY A. DREER,
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OFFER FOR THE FALL OF 1906

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Would also call your attention to our VIBURNUM PLICATUM'S, fine plants.

We have the largest field of PEACH TREES we ever grew, also surplus of JAPAN PLUMS

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A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

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FOREST TREE SEEDS AND SEEDLINGS

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All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
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Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

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Franklin Davis Nursery Company,
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WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.
A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.

THOMAS TREE BALER AND BOX CLAMP

Speer Grafting Machine

4 C. Cultivator, Smoothing Harrow

Best Digging Spade.
Bud Transplanter.
Circulars and Prices.

E. G. MENDENHALL, General Agent,
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JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

WANTED TO SELL AT ONCE

A beautiful nursery in the South (At Winchester, Tenn.) 132 Acres well equipped and running. Party intends going to the West.

Address Box 217, Winchester, Tenn.

ELMIRE SEBIRE

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Grower and Shipper of NURSERY STOCK
ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.
Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

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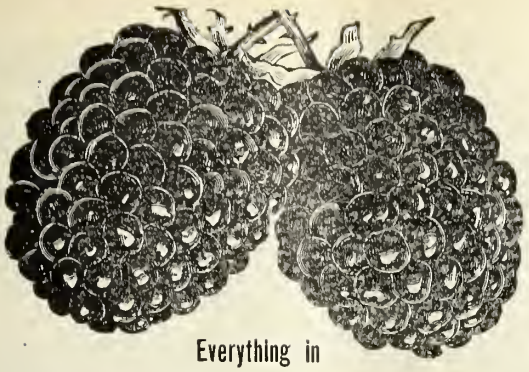
Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*



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Small Fruit Plants.

Ask for price list.

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GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach

IN CAR LOTS.

We also grow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendrons, etc., etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

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Mahaleb Seedlings For Sale

A very fine lot of home grown Mahalebs, finely rooted, can be had at very low prices, if taken at once. Also

15,000 MYROBOLAN.

Address, E. P. CLARK, Dansville, N. Y.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

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Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
HONEY LOCUST 8-10 inch grades.
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RUSS. MULBERRY 8-12, 12-18, 18-24 inch, 2-3 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
WHITE ELM 8-12, 12-18 and 18-24 inch grades.

Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right ; we make them ourselves.

GERMAN NURSERIES,

Carl Sonderegger, Prop. **Beatrice, Neb.**

NOT EVEN YOU WANT A HOUSE

that has a "will do" phase to it—a sort of good natured putting up with an inconvenience or lack of efficiency because you are tired fighting for things. We are good fighters—we make a business of it—but fight only one way—for progress—the way that gives you the best house possible at the best price possible.

If you want a cheap house, better go to a cheap man—but it's a chance you'll save money in the end—by first coming to us.

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GREENHOUSE DESIGNERS and MANUFACTURERS.
1133 BROADWAY COR. 26TH ST., N. Y.
Boston Branch: 819 Tremont Bldg.

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OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

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F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

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Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

General view of home nursery grounds of Griffing Bros. Company at Macclenny, Fla.

Applying the spray, using traction engine, drop nozzles covering two rows of trees at a time, with Bordeaux mixture or lime and sulphur.

Preparing the spray mixtures.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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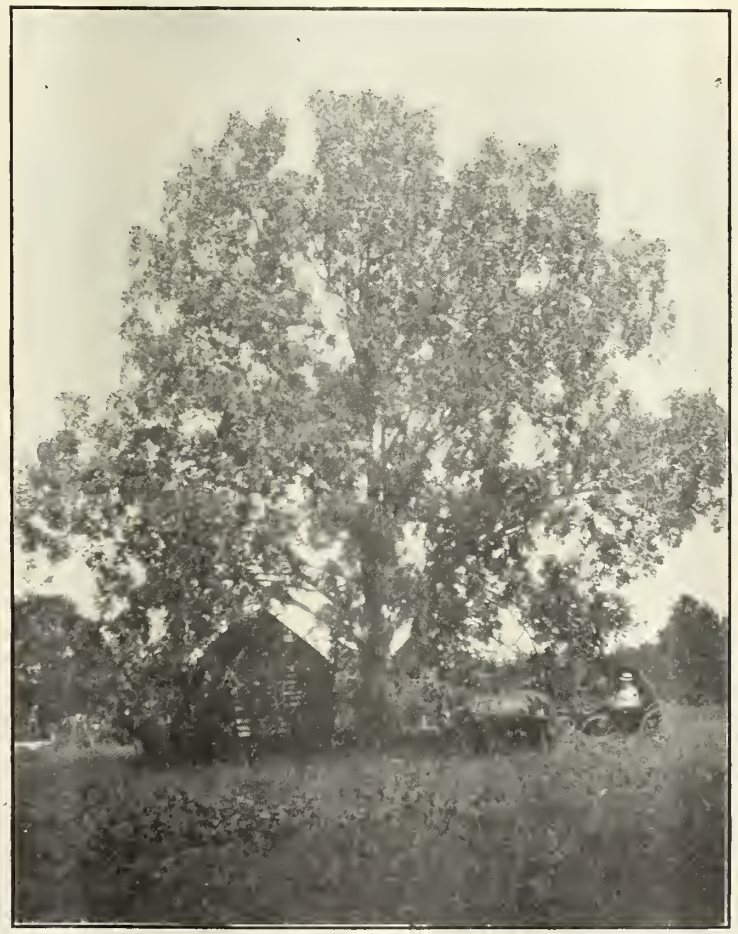
GRIFFING BROTHERS COMPANY, JACKSONVILLE, FLORIDA.

EXTENSIVE NURSERYMEN AND ORCHARDISTS.

PECANS, PEACHES, CITROUS AND SUB-TROPICAL FRUITS PROPAGATED ON A LARGE SCALE.

[Written and Illustrated for The National Nurseryman.]

The idea of growing stock where the environmental conditions present the most favorable opportunities for developing that stock is not new, but it is not practised as extensively by nurserymen as its advantages warrant. Among those who are taking special advantage of this fact are the Griffing brothers, with headquarters at Jacksonville, Florida. This company operates extensively in the great southern field, and anyone who has visited the now rapidly developing regions of the South cannot but realize what tremendous opportunities await the clear-headed business nurseryman in that territory.



A pioneer seedling pecan on the farm of Griffing Bros. at Macclenny, proving the natural adaptation of the tree.

The Griffings have two main divisions of their nursery, one situated at Macclenny, Baker county, in northern Florida, for the growing of broad-leaved evergreens, ornamentals, and deciduous shade and fruit trees. Here, great quantities of peach, of plum, masses of roses, and ornamentals are propagated. Here, too, the pecan is found in nursery, co-extensively with the orchard fruits. The soil of this region is the type which produces vigorous, well-ripened wood and fully developed root system.

The southern branch of this nursery is located below the frost line, near Miami, in southern Florida. This is the home of the citrous fruits, where the orange, the pomelo, the lime, the kumquat flourish. Other tropical and sub-tropical trees and plants are grown there in large quantity. The fact that the Key region of Florida, that Porto Rico and Cuba are planting so extensively, the citrous fruits, makes the location of the orange and citrous nursery at this end of Florida peculiarly convenient, and the Griffings have been large operators in Cuban orchard enterprises for some years. Their plantings in Cuba have run up into the thousands of acres within a few years.

PERSONNEL OF THE COMPANY.

The five Griffing brothers devote all of their time to the Nursery and Orchard business.

W. D. Griffing, President, residence Jacksonville, divides his time between the company's different branches and orchards, giving general supervision to all.

C. M. Griffing, Secretary, residence Jacksonville, directly in charge of Office and Sales Department.

W. C. Griffing, Vice-President, residence Macclenny, in charge of North Florida Division Nursery and Orchards.

View in Peach and Pecan orchard, Mr. Griffing standing by Pecan tree.

A. M. Griffing, Treasurer, residence Miami, in charge of South Florida Division Nursery and Orchards.

D. W. Griffing, Superintendent, residence Cuba, in charge of company's development contracts and operations in Cuba.

These men came from New York State, and started in a small way in 1887. The acres were few, the dollars were scarce; but the growth has been remarkable. The Griffing Brothers Company was incorporated under the laws of the State of Florida in 1896, at which time their plantation approximated 400 acres.

LEADING FEATURES.—THE PECAN IN NURSERY AND ORCHARD.

There are those who believe that pecans outside of the Gulf region are not worth considering. These are the men who look at the industry from a local, or narrow view point. It is well to have a belief and faith in the possibilities of your own climate, but it is desirable to have that belief tempered by a comprehensive, generous spirit. The range of the pecan is much wider than is supposed by many. Large, handsome, fruitful trees are found in northern Florida and Georgia, on the so-called light, sandy soils, as attested by an accompanying photograph (p. 249) of a giant tree on the Griffing's Macclenny place. Large groves are being planted in these regions. Among those who are stimulating pecan growing with great vigor, are the Griffing brothers, whose main orchards and nurseries are located at Macclenny, Florida. The Griffings have made pecan growing, from the nursery and orchard standpoint, a leading feature for a number of years. They have believed in it, and have put their belief into practice. For instance, over 125,000 crown grafts were set in nursery rows the past spring. While this is not the general popular method of propagating the pecan, the Griffings have been quite successful in multiplying varieties by this plan of grafting. The usual annular method of bud grafting is employed by them also, but they do not tie themselves down to any one system.

EXTENSIVE PECAN ORCHARDS.

One of the most interesting plantations it was our pleasure to visit was a 500-acre orchard block with pecans set for permanent trees, interplanted with peaches as fillers. This block is all of named, grafted varieties. The permanent trees are set fifty-four feet apart each way. The peach trees stand nine feet apart in rows one way, and eighteen feet apart in rows the other way. By this plan the pecans are found to be the seventh and fourth trees at the two distances. Having the wide rows, it gives an

Showing a novel over-head system of irrigation used by the Griffing Brothers in their pecan nursery at Macclenny.

opportunity for spraying, hauling the fruit, and carrying on general cultural operations. The peaches are of the Honey and Peen-to classes, which are best adapted to that region. The Griffings believe in intensive cultivation and in the use of cover crops. The green cover used is the beggar weed, which succeeds in that region better than any of the other legumes. The growth is simply immense, and one of the peculiarities and advantages about the plant is that it reseeds itself, the cover springing up spontaneously at the close of the cultivating season. These trees are, as stated above, cared for in the most approved fashion — sprayed with lime and sulphur in early spring, "grubbed" in early summer, and headed back during the dormant period. We were astonished to find that the three-year-old peach trees were carrying a very good crop of fruit, and were as large as four-year-old trees in the North. The peach trees are headed back severely when they beg'n to show signs of debility, and are thrown into new and vigorous growth in this way. This pecan venture is one of the largest of its kind in the country.

Preparing for peach planting by growing a crop of cantaloupes.

Pecan nursery, where thousands of seedling pecans are grown for crown grafting and top working.

Crimson rambler as a stock for hybrid perpetuals and tea roses. Griffing Brothers Company.

CANTALOUPES.

The cantaloupe is a side crop with the Griffing brothers. It is used as a crop to bring new land into condition for peach planting, though sometimes as a secondary crop with the peach; and for nursery trees. We noted a block of one hundred acres, in which, at the time of our visit, about the first of April, the young plants were just peeping through the ground. This crop matures in early June, and, if desirable, may be followed by a crop of beggar weed or other leguminous cover crop. The variety used is the Rocky Ford, and they are planted in hills three by six feet apart.

GENERAL NURSERY WORK.

Peaches are a strong line with the Griffing brothers in their northern branch. Other stone fruits are propagated on a large scale. Our southern friends have a great advantage, due to the length of the season, in growing trees of the character of the peach. The seed is planted in February, the seedlings appearing in March are budded in May and June, and are four or five foot trees in the autumn of the same year. This is realizing on your investment in labor and capital very speedily, and gives the southern nurseryman a considerable advantage over the grower in the North, whose seasons are clear cut and distinct. The Griffings grow half a million or more peach seedlings each year. What is true of the peaches is also, in a degree, true of the apples and pears. Grafts of these, set in early spring, make trees five to seven feet in height the same season. In the southern division, citrous fruits are staples, and these supply in an extensive way the heavy demand from Cuba and Porto Rico.

ORNAMENTALS.

Many of the ornamentals peculiar to the South are grown in quantity. We were struck by the large areas devoted to the roses—teas, hybrids, and the newer rambler types. The use of the rambler as a stock was a somewhat new adaptation. The ease with which the Crimson Rambler strikes from cuttings, makes this plan not only feasible, but very desirable. The Cape Jasmine, the Pomegranate, the Camellia, and other mid-South forms play an imporant part in the decorative side of this extensive business.

BUSINESS CONNECTIONS.

The Griffings, as may be gathered from the above, are extensive orchardists as well as nurserymen. In addition to the plant at Macclenny, which may be regarded as the parent institution, they maintain a branch nursery near Miami, where the tropical and sub-tropical forms are propagated in quantity. They have also been extensively engaged in citrus operations in Cuba, and this year turn

A five year old block budded pecans reserved for buds and scions, some trees of each variety are not cut and are bearing, showing varieties to be true and genuine.

over to a promoting company in that island a thousand acres of orange grove, which they have planted and managed for the past four years.

Orange stock is one of their leading lines, and their nurseries, both at Miami and Macclenny, turn out large quantities every year.

SPECIAL PRACTICES.

We were greatly interested in examining an extensive irrigating scheme which had just been installed and put into operation about the time of our visit. This plan differed from nearly all irrigating schemes we have examined, in that instead of the water being conducted in ditches over the surface of the ground, it was carried in galvanized pipes, elevated on posts seven or eight feet high. The pipes were perforated and supplied with nipples, and were so arranged as to permit of being revolved on their own axes. This permitted the streams of water issuing from the nipples to be thrown at different angles, and the angle which was chosen depended upon the direction of the prevailing wind. In this way a large surface could be irrigated by these streams, which were broken into misty rain before reaching the sandy ground. It often occurs that a drought prevails in northern Florida late in March or early in April. This frequently results disastrously to young nursery stock, and it was to lessen the injurious effects of this drought that the plant was installed. A stream provides the water and a twelve horse power pump furnishes power. On the sandy soil characteristic of the nursery lands, the water, when applied in the form of rain, sinks in gently, without washing or surface erosion. This scheme appealed to us as being eminently practicable. (p. 250.)

Orange trees in the Griffing Brothers Tropical Nursery, near Miami, Fla.

The photographs illustrating this article were mostly made on the grounds expressly for this sketch.

THE NATIONAL NURSERYMAN PUBLISHING CO.

Gentlemen : — Enclosed find currency one dollar, for which please extend my subscription to NATIONAL NURSERYMAN.

Your Convention number is a "hummer."

Adel, Iowa. M. J. GRAHAM.

THE NATIONAL NURSERYMEN PUBLISHING CO.

Dear Sirs : — Enclosed find check for one dollar to renew subscription, can't do without your valuable publications.

T. E. BURROUGHS.

Deep River, Conn.

APPLE GROWING IN INDIANA.

JOE. A. BURTON, ORLEANS.

Indiana is largely dependent on other States for her supply of apples. We pay out annually about $1,000,000 for the outside product. How much we grow at home we have no means of determining. Five times what we buy would, probably, be a fair estimate. The families

Fertilizing and planting cotton as a secondary crop in the pecan orchard.
Griffing Brothers Company, Jacksonville, Florida.

that are without apples most of the year would use as many more if they had them. It is not necessary that we live thus scrimped of the most delicious of all fruits, but because we are improvident. Much of our land is peculiarly adapted to apple growing. Drouths do not affect them. A very encouraging feature is that the apples that do best here are the ones that bring the highest prices in the market. Here they are: Benoni, Grimes, Jonathan, Rome Beauty, Winesap, Genet. There is no other half dozen that can compare with these. Indiana had the finest Winesaps at Paris; the finest Rome Beauties and Genets at St. Louis. We were awarded 120 medals at St. Louis: Four gold, twenty-eight silver and eighty-eight bronze. This is several more than were awarded to New York, although New York grows, perhaps, 100 bushels to our one. It is thus plainly demonstrated that we can grow fine apples. That we do not grow them in abundance is the fault of the people, not the territory. We need a lot more for ourselves, and we are in easy reach of all the markets. A few realize the conditions, and are planting large orchards. When these and others that will be planted, come into bearing, we will not be overstocked with a kind that nobody wants. We are planting only varieties of known high quality. Although you see few apple trees around West Baden, it is not because the conditions are unsuited. No finer apples can be grown anywhere than right here on these hills.

When Illinois and Missouri have satiated the markets with their Davis's and New York with her Baldwins and Greenings, until they scarcely bring enough to cover freight and package, Southern Indiana, Grimes, Rome Beauty and Winesap are in demand at $1 per bushel. There is only one *community* of apple growers in the State That is near New Amsterdam, on the Ohio river, in Harrison county. They have no transportation except by boat, and at gathering time the river is often not navigable. These growers have never associated themselves with any horticultural society, so are not in accord with the best methods. Another drawback to their business is that nearly all their apples are of one variety, and that variety one that nobody wants. So, a large part of them (I mean the apples, of course, not the people) find their way to the still-house. Then the only apple community in the State has made a failure. However, there are quite a number of isolated orchards that pay well. Among them may be mentioned the following:

Hitig Brothers, Madison, Jefferson county.
John S. England, Tabinsport, Perry county.
C. R. Mosley, Grandview, Spencer county.
Doc. Heuser, Grandview, Spencer county.
John Beeler, New Albany, Floyd county.
W. B. Robinson, Vincennes, Knox county.
J. S. Henwood, Centerville, Wayne county.
Chris King, Rushville, Rush county.
Thomas T. Newby, Carthage, Rush county.
S. T. S. Williams, Knightstown, Henry county.
Sam H. Hazelet, Greencastle, Putnam county.
J. W. Zion, Clarks Hill, Tippecanoe county.
W. B. Flick, Lawrence, Marion county.
Burton Fruit Co., Mitchell, Lawrence county.
William Waltman, Nashville, Brown county.

In the northern counties, bordering on the lakes, are a number of successful growers, but I cannot name them. More interest is taken in the business through the central part of the State, but the efforts there are not properly rewarded. The conditions there are less favorable than in the northern and southern sections.

Lowering the heads of peach trees. Cut back during winter just standing out.
This orchard has produced 4 large crops. New heads made this season will produce full crop next year.
Griffing Brothers Company, Jacksonville, Florida.

ANNUAL MEETING OF PACIFIC COAST ASSOCIATION.

Pacific Coast Association of Nurserymen convened at Tacoma in the federal courtroom in the Chamber of Commerce building, on June 11th. Members were present from all of the Pacific coast States, and there was much interest in the meetings.

President Adam Eckert, of Detroit, Wash., called yesterday's session to order and presided over the meeting. After the reading of minutes, reports of officers and other preliminaries were out of the way, several interesting addresses were delivered. S. A. Miller, of Milton, Ore., spoke on "Requisites for the Growth and Care of Nursery Stock, True to Name." He was followed by A. W. McDonald, of Toppenish, Wash., who read a paper on "Notes From the Past Year's Experience in the Nursery."

The afternoon meeting was called to order at 1:30. M. J. Henry, of Vancouver, B. C., gave the members a few pointers on "How to Sell Direct." A. Holaday, of Scappoose, Ore., read a carefully-prepared paper on "The Selection and Care of Scions."

At three o'clock the delegates became guests of the chamber of commerce and, with their friends, were taken for a launch ride and street-car ride about the city. They visited McKinley park, the tidelands and Point Defiance park, and viewed the waterfront by launch from the point to the city, the trip being a delightful one.

In the evening there was an informal session of many of the delegates, but no matters of public importance were considered, it was stated.

INTERESTING PAPERS ARE READ.

During the day, at the business session in the federal courtroom, several papers of interest were read. M. McDonald, of Salem, Ore., gave an interesting talk on "Walnuts." A. Brownell, of Albany, Ore., spoke on "Insect Pests and Their Relation to the Nurserymen and Orchardists." "Co-operative Work of Nurseries and Experiment Stations," was the topic assigned to Prof. W. S. Thornber, of the experiment station at Pullman.

C. N. Young, of Tacoma, read an interesting paper on "Beautifying the Home," and J. G. Hopkins closed the afternoon session with an address on "Rose Growing," which was instructive and interesting.

This morning at nine o'clock the nurserymen and their friends took a steamer ride to Magnolia and Burton, as guests of the *Northwest Horticulturist*, where they visited the dry dock and other points about Quartermaster harbor.

There will be a special meeting during the mid-winter season in California, which is expected to be a great attraction for the nurserymen. It will be held at about the same time as conventions of the State Horticultural Society and fruit inspectors are held, and will be a rare opportunity for the growers of trees to meet others interested in allied pursuits.

Officers were elected as follows: President, F. W. Power, Chico, Cal.; vice-presidents, W. D. Ingalls, North Yakima, Wash.; C. W. Howard, Riverside, Cal.; C. F. Lansing, Salem, Ore.; M. J. Henry, Vancouver, B. C.; C. P. Hartley, Caldwell, Idaho; P. A. Dix, Salt Lake, Utah; secretary-treasurer, C. A. Tonneson, Tacoma.

RESOLUTIONS ARE ADOPTED.

Resolutions were passed by the members of the Association as follows:

"Be it resolved: That we, the members of the Pacific Coast Association of Nurserymen, wish to thank the city of Tacoma and the Chamber of Commerce for the courtesies extended to us during the present session, particularly for the enjoyment which we received during the trip to Point Defiance park.

"Also, the thanks of this Association are tendered to the Puyallup Board of Trade and Fruit Growers' Associa-

(*continued on page 255*)

Legislation.

OKLAHOMA FRUIT TREE LAW DECLARED UNCONSTITUTIONAL.

From the Guthrie, Okla., Leader, Apr., 19th, 1906.

Monday afternoon, after hearing exhaustive discussion by the Honorable Charles Thacker of Mangum, and the territorial attorney-general of this place, in behalf of the commonwealth of the territory, and the firm of Erixon, Remy & Heggem on a demurrer to the information in the case wherein the Territory of Oklahoma charges Charles S. Vines with having violated the Agricultural law, raising the question of constitutionality of said law, Judge Todd sustained the demurrer submitted by defendant's counsel, thereby holding the law unconstitutional on several grounds, viz.:

The law undertakes to vest in certain persons, to be selected by the Farmers' Institute, the unlimited right to govern certain business interests of the people in common, thereby governing the people in general, with only the consent of a class, directly or indirectly. It provides for money to be drawn out of the general funds, having been raised by general taxation, for the operation of the board, thereby engaging in the act of taxation without representation.

It undertakes to vest legislative and judicial functions in one and the same body. It authorizes this board to arbitrarily determine whether or not a person may be engaged in the nursery business either for himself or as an agent without prescribing any qualification of the applicant desiring so to engage, or providing any appeal or relief from its decisions, and authorizes the board, for certain violations of the act, to forever deprive any person, firm or corporation from directly or indirectly engaging in the nnrsery business for any firm, person, or corporation in the Territory of Oklahoma without furnishing him, or such firm or corporation, any appeal or judicial hearing whatever, thereby depriving said person, firm or corporation of a property right without due process of law.

The court also holds the law to be a discrimination between the citizens of the several states and the Territory of Oklahoma, and that it undertakes to control the inter-state commerce reserved, by the United States constitution, in congress.

A CONNECTICUT NURSERYMAN'S OUTING.

EDITOR NATIONAL NURSERYMAN:

Relative to my trip after the convention, I would say it was the finest ever. I came back to St. Louis and took the Missouri-Pacific to Pueblo, Colorado, spent a day there, and then went over into the San Luis Valley on the Rio Grande, where my farm is located, at Mosca. Found lots of good prairie land where I think I shall go if ever the nursery business gives out. I was very much taken with the country, and spent two or three days there to advantage. Very nice people and they treated me in true western style. From there I went back to Colorado Springs where I spent a day and went up Pike's Peak, then on to Denver, where I spent two days more seeing the city, which is one of the prettiest in the west; from there back to Kansas City, from Kansas City to St. Louis, and over the Clover Leaf via Toledo & Detroit. Spent half a day at Detroit, and trollied over the city. I was very much taken with Detroit and believe it will be as good as Boston for the Convention. The next stop was Rochester, where I would have liked to stop a week. Outside of Hartford, Rochester is one of the nicest cities in the world.

Very truly yours,

Manchester, Conn. C. R. BURR.

PACIFIC COAST ASSOCIATION.

(*Continued from page 254.*)

tion for the pleasant trip to Puyallup and entertainment while there.

"Also, to the Northwest Horticulturist for the invitation and trip to Magnolia and Burton, Puget Sound dry dock and other points.

"Also, to the president and secretary for labor during the past year, making this the best meeting of the Association that has so far been held.

"It is with great pleasure that we shall always look back to this meeting."

It is expected that the next regular meeting will be held at Salem. We are indebted to Mr. F. W. Power and the *Tacoma Daily Ledger* for the above account of the meeting.

Obituary.

THEODORE S. HUBBARD.

VETERAN NURSERYMAN AND PHILANTROPHIST OF GENEVA.

Geneva, July 8.—The funeral of Theodore S. Hubbard, who died suddenly Friday night, was held at the family home this afternoon at 4 o'clock and was largely attended.

The deceased was born in the town of Cameron, Steuben county, in 1843, and spent all his early life in his native town. In 1866 he settled in Fredonia and engaged in the growing of grapevines, in which industry he was one of the pioneers. He founded the T. S. Hubbard Company, of Fredonia. In 1887 he removed to this city, and since that time had lived practically a retired life.

Mr. Hubbard was always active in the Republican organization. He was also noted for his philanthropy. He became a member of the North Presbyterian Church, and in 1888 was elected elder. One of his special interests connected with the church was the Sunday-school work. He regularly attended the meetings of the Ontario County Sunday-School Association, and at one time was an officer in the State Sunday-School Association. He was one of the largest contributors to the original building of the Y. M. C. A., and also contributed to the rebuilding fund after the building was destroyed by fire nearly four years ago. At one time he was a member of the Board of Trustees, but resigned on account of his health. The total number of charities to which he annually contributed numbered nearly two hundred.

Mr. Hubbard was one of the charter members of the American Association of Nurseryman, and was twice elected president of the association. He had served as trustee for Hamilton College, in which he endowed two scholarships. He was commissioner to the Auburn Theological Seminary and had been a trustee and member of the Examining Board. He was twice elected commissioner to the General Assembly of the Presbyterian Church; an active member of the New York State Sunday-School Association, and one of the committee of the Synodical Aid for Churches.

Mr. Hubbard leaves his widow, one daughter, Miss Florence M. Hubbard, and two sons, T. Gilbert Hubbard and Pomeroy B. Hubbard, of this city; also one brother, C. G. Hubbard, of Hornell, three sisters, Mrs. Emily Hubbard, of Syracuse, and the Misses Adeline and Alma R. Hubbard, of Fredonia. The remains were taken to Fredonia for interment.—*The Times.*

INTEREST IN WINTER COURSES IN HORTICULTURE AT CORNELL.

The tendency in winter-course instruction at most of the colleges of agriculture, is towards specialization and concentration. A few years ago the farm students were all grouped in one course in general agriculture made up of a taste of dairying, animal feeding and breeding, orcharding, farm management, and the like. As time went on and in response to an expressed desire on the part of the pupils, they were separated into groups according to the subject in which they were particularly interested, till now the winter-course student at Cornell may elect a course in general agriculture, one in dairying, one in poultry raising or one in *horticutture.*

The course in horticulture was installed last winter and there were fifteen students registered in it. The certificates to the successful students of last winter in this course have just been distributed and many inquiries are already in hand regarding the scope of the work for next winter. The aim is to make the work as practical as possible with a view of equipping the student for actual orchard, garden or greenhouse management work. Principles are taught, but the practice work is the most important. The course is open to men and women. The facilities at the College of Agriculture are being rapidly improved and when the new College buildings are completed next year the work will go forward with greatly increased enthusiasm and satisfaction. Persons desiring information regarding this course should apply to the *Department of Horticulture*, College of Agriculture, Cornell University, Ithaca, N. Y.

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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ROCHESTER, N. Y., AUGUST, 1906.

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Editing Report—J. Horace McFarland, Harrisburg, Pa.; J. C. Maloy, Rochester, N. Y.; George C. Seager, Rochester, N. Y.

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NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

THEODORE S. HUBBARD.

In the passing of Mr. Hubbard, the American Association of Nurserymen has lost one of its charter members. He was a man of strong convictions and thoroughly fearless. He made a name for himself in Western New York, and took a prominent part in developing the grape industry, both in the field and in the nursery. His name will always be associated with the organization of this great association of nurserymen in an honorable way. As a citizen he is a great loss to his native town. His interests were vastly broader than his business and professional connections. His loss is mourned.

ETHERIZING PLANTS.

Ether has been used in connection with the forcing of plants in Europe for a number of years. Plants which are to be forced are subjected to the fumes of ether for periods varying from thirty-six to forty-eight hours. They are enclosed in a tight box and fumigated, as it were, after the manner of plants treated for noxious insects. This saturation of their tissues with the fumes of ether seems to have the effect of stimulating the growth activities of the plant. At Cornell University, Department of Horticulture, quite extensive experiments were carried on last winter by Mr. J. E. Howitt, in which a large variety of plants were used. Those plants which responded actively to the ether stimulus, and which it appears could be profitably treated in this way, are lilacs, spiraea, among the flowering shrubs, and rhubarb among the vegetables which are forced. Many other plants responded in degre, but not as decisively as these mentioned. A report of this work will be published before very long.

FORMS OF SPRAY.

For several years the maxim, "Let us spray" has been the watchword of the progressive fruit grower. There has been a difference of opinion, however, as to the kind of material we should use in spraying. Some have recommended wet sprays and some dry sprays. Our friends in the West have been strong for dry sprays. Recent experiments, however, seem to throw serious doubt on the efficiency of the dust spray, and it is more than probable that many who have spent money in purchasing dust guns will go back to the liquid machine in the near future. No fairly-conducted experiment has shown that dust spray is equal to the liquid form, and several have shown it to be distinctly inferior.

CAN A TRADE PAPER SELECT ITS SUBSCRIBERS?

The United States Post-Office Department and the best legal advice we are able to secure, in answer to this question, say "Yes." It is not always possible for a trade paper to know accurately who are entitled and who are not entitled to the benefits of its subscription. But the present postal regulations place it in the hands of the business management to reject or accept subscriptions or advertisements.

Judge Irvine, of the Cornell University College of Law,

to whom this question was referred, says that "The act of 1894 evidently intends that private periodicals or periodicals published by an incorporated institution of learning, or by or under the auspices of a trades union, or publications of strictly professional, literary, historic, or scientific societies, may be admitted to the mails as second-class matter, although its subscription list is restricted to members of the society, order, or union by which it is published."

The third assistant postmaster-general says that "There is nothing in the postal laws and regulations which compels a publisher to accept all subscriptions offered. He may refuse to accept upon any reasonable ground, but if such a refusal indicates that the character or manner of circulation of the publication does not meet the requirements of the postal laws and regulations an investigation will be made to determine whether the publication is entitled to the privileges of matter of the second class." In other words, the rejected subscriber has the privilege of appealing to United States authority. This explanation is placed here for the reason that the question has arisen once or twice in some private correspondence, and there are those who might wish to know just what the status of the trade paper is.

FEDERAL CONTROL OF INSECT PESTS.

We have just read with much interest an article in a recent issue of *Popular Science Monthly* on the national control of introduced insect pests. The writer, Professor Sanderson, of New Hampshire, argues in favor of national control, and we are thoroughly in accord with the position he takes, especially in reference to imported insect parasites. We need but look about us in the most superficial manner to see how the situation might have been changed had some general suppressing hand been in evidence in the years past. For instance, what an amount of labor, money, and annoyance we might have been spared, had a quarantine officer at San Francisco shut out San José scale in the early nineties, or had immediately set in motion machinery for its suppression, if not extermination, in California. Here is an oportunity of truly national importance, one in which all fruit-growing States are interested.

Let us suppose, again, that the federal government had taken hold of the gipsy moth question in Massachusetts the way they have attacked the boll weevil of the cotton, and yellow fever mosquito, in the South and West. Had this been the case, it is not probable that the entire flora of New England would now be threatened with great loss, if not partial destruction. And so with the currant worm, another enemy from Europe, which came here many years ago, the codling moth, and other insect enemies from abroad. We also have parasites of American origin which, in our opinion, can only be controlled by federal intervention. Some of these begin operations in a certain State where a crop is largely grown, and spread beyond its borders, threatening the same crop wherever cultivated. The trouble is that each State must learn how to control it, and during this educational process the insect or enemy gains such a foothold that it is increasingly difficult to eradicate it. Any pest, in our opinion, which becomes a first-class enemy of the agriculturist or horticulturist, and which is unchecked by climatic limitations, can best be controlled by a policy outlined and directed by a single head.

It is said that such legislation would be unconstitutional. Why should it be so, more than quarantine laws for the prevention and suppression of diseases affecting the human family or domestic animals? Such laws governing meat food supplies are managed by federal authorities. Why do not fruit food supplies come under the same category? Are we not hampered by too many interstate restrictions and a lack of stringency in regard to regulations which will check, or attempt to control, the importation of dangerous insects and parasitic enemies on plants and nursery stock?

DEVELOPMENT OF OUT-DOOR ART.

The great interest manifested by individuals and organizations in the embellishment of parks and private places, has been noted in these columns. It continues to grow apace. It is to be measured by the sale of ornamental material, and suggested by increased attendance at schools where the landscape art is taught. Nurserymen can attest to the growing demand for ornamentals, and the new schools for landscape teaching are evidence in the other field. In the last few years a number of schools for the teaching of the landscape art have been established. Cornell University has added one under the auspices of its College of Agriculture. This school is in charge of a practising landscape architect, and is assisted by the engineering, the horticultural, and the art departments of the University. The attendance is increasing and interest growing.

Nurserymen are advertising landscape departments, and we are especially pleased to note that they are placing trained men in charge of business departments. As wealth and culture increase, growth in this direction is bound to continue.

VAGARIES OF THE WINTER.

Those who live in the cold North must constantly reckon with the winter. Normal conditions, as a rule, are not to be feared. It is the abnormal which is accompanied with disaster. It does not mean that the winter must be excessively cold, because abnormality may be of the excessively warm type. Such was the case last winter, and our friends north of the 42nd parallel of latitude report great injury to strawberries, bush fruits, and herbaceous plants. The natural and best cover for plants in the cold section is nature's snow blanket. When this is wanting, trouble ensues. So it was last winter. A limited and unconstant covering of snow, accompanied by an unusual run of fluctuating temperatures, carried destruction to the gardens and orchards of the amateur and professional alike. In some places sheets of ice appear to have smothered strawberry beds, and in others lack of the snow covering allowed the frost to penetrate to unusual depths.

Further south there are some curious conditions which

it is hard to explain. For instance, in central New York, Virginia creeper, usually regarded as a standard of hardiness, has been quite seriously injured. On the other hand, golden bell, forsythia, one of the half-hardy shrubs, bloomed with great profusion and was in nowise injured. Probably it is a question of determinate or indeterminate growth. If a plant remains absolutely dormant it is likely to escape injury. On the other hand, if it responds to warm weather during winter, it is likely to be injured by successive periods of cold.

THE QUESTION OF PACKAGES.

Georgia fruit growers are considerably exercised over the advanced price of peach crates. The manufacturers of the crates claim that, owing to the advance of lumber and labor, they are obliged to put up the price of the crate. Crates which sold for twelve cents two years ago, sell now for sixteen and seventeen cents. Perhaps the average price is fifteen or sixteen. Many of the growers have reached the conclusion that they cannot afford to use this carrier longer. J. H. Hale, writing in the *Fruit Trade Journal* of April 28th, states that he will try Jersey and Climax baskets this year, instead of the old-time package. He claims that the margin between profit and loss in 1904 was so close that one hundred carloads shipped to the Northeast netted him only five and two-thirds cents per crate. The advance in price of crates since that time will nearly eat up this small margin of profit.

Other growers claim that the crates cannot be manufactured for less than the price asked. Mr. G. H. Miller, of north Georgia, is of this opinion. He is also of the opinion that the Michigan or New Jersey basket will not answer the requirements of the Georgia trade, and suggests as a remedy that the growers take more pains in sorting and grading their fruit.

Looking at the question from the outside, it would appear that this crate business was likely to prove a considerable factor in deterring the extensive planting of peaches, which has characterized the Georgia region the past two or three years. The higher prices for cotton are also attracting attention to other crops, and, as Hale suggests, it may be that some who have thought of planting peaches will go into cotton instead, though we do not believe that many are likely to pull up their orchards and substitute the cotton crop for the peach crop.

DISSOLUTION NOTICE.

We are requested by Mr. Samuel Billingsly, who recently purchased the Greenwood Nurseries, formerly conducted by Dean & Billingsly, Greenwood, Ind., to set forth the features of the purchase more clearly than was done in the brief notice given in our July issue. The contract covers the following points: The ownership of all the business of the firm by Billingsly; the agreement on the part of Dean not to sell stock south of Indianapolis in the territory occupied by the firm; Billingsly assumes control of all stock, leases, books and nursery equipment except stock in the city of Indianapolis. Obligations not specifically mentioned in the contract are assumed jointly by the former members of the firm. The Greenwood Nurseries are then to be operated in the future by Mr. Samuel Billingsly of Greenwood, Ind.

Correspondence.

THE PEDIGREE QUESTION AGAIN.

EDITOR NATIONAL NURSERYMAN:

The question of pedigreed plants gets more interesting the further we look into it.

Are the varieties of fruit trees described by the American Pomological Society, or those described by Downing, or by any other recognized authority, pedigreed? Are any of them pedigreed? If so, which? [None.—Ed.]

If these standard varieties are not "pedigreed," then the whole term, and all that it implies, becomes of no value except to any scientific experimenter who may, because he can prove "parentage" on both sides, foist on the trade and on the public, species or varieties having no commercial value whatever, and which would not be considered eligible for listing, either by the above-named society or by the American Association of Nurserymen.

If, on the other hand, they, or any of them, are "pedigreed" (and as "bud variation" is an acknowledged fact, the importance of which has been greatly underestimated), of what value is the "pedigree" when sports, variations, and degenerations occur, in spite of the "known parentage?"

The term "pedigree," both in the animal and vegetable worlds, implies more than known parentage; it implies absolute reliability.

Take the "French prune," as already alluded to, or take the Early Crawford peach, and both variation and deterioration occur in a marked degree. From the scientist's standpoint, any Early Crawford tree, propagated, successively, from buds from the original (supposing it to be of known parentage), is a pedigreed tree, while it may have deteriorated far below the original standard; while another tree, propagated in a similar manner, except that proper care has been given to the theory and practice of bud variation and selection, is no more entitled to be called "pedigreed" than the former. Shall we make a compound word and speak of "pedigree-select" or "selected-pedigree?" The proposition begins to verge on *reductio ad absurdum;* will the NATIONAL NURSERYMAN help us out?

LEONARD COATES NURSERY CO.

Morganhill, Cal.

NOTE BY EDITOR.—As we understand it, pedigree implies a known parentage only. It does not guarantee quality. It cannot do this. Right here is where those who have seized upon the term to aid in selling new strains or varieties, have attempted to lead us astray. Let us say that a strawberry is the product of a cross between Gandy and Haverland, in turn fertilized with Bubach. Here is a pedigree, but does it guarantee anything? Not at all. The offspring may be poorer than any of its predecessors. The pedigree is its genealogical record; nothing more nor less. If the pedigree cites good stock, we should expect more than if a worthless parentage were involved.

"PAPA" JOSSELYN ON "CREDITS"

The following is abstracted from the interesting address of Mr. Josselyn, at Dallas:

It's queer how some young men chose an occupation. About any business, strenuously followed, is hard labor. When I was a youth, it was suggested (by one of the family, of course) that I should become a minister. I thought that rather a soft job—only one day's work in a week—as I felt I could preach well enough for average sinners any time without any previous preparation. A parson could lie (in bed) if he wished, until about noon every day, Sunday excepted. There was nothing in the creeds which would prohibit a clergyman from smoking or fishing every fine afternoon, Sundays excepted. If the weather was rainy, he could make, now and then, a pastoral call. That would be dandy! But there was a hitch somewhere; I never knew where, but my family did. Then it was suggested that I be a lawyer; but I never could lie, at least never did much until after I began visiting the "Flower City," so we dropped the law business. Then the practice of medicine was discussed, but it was recalled that one of my ancient ancestors was a doctor, and that he departed this life on account of a persistent habit of flirting with the bottles; not those little, insufficient homeopathic apologies, but of the size many of us supposed, until a few hours since, you gentlemen of Texas all had your hip pockets fitted for—quarts. Some of you will perceive that we became possessed of this idea while listening to that immensely funny play, "The Texas Steer." I will admit that we might have spent the evening more profitably, inasmuch as it has been related of one York State nurseryman that the first time he visited New York city, with one evening at his disposal, instead of wasting the time at any such gay and frivolous place as a theatre, he spent the single one night off of his life viewing the panorama of the Holy Land. It is needless to remark that the gentleman was not one of the young men who came here in the Rochester special car. Afterwards I took to railroading. After some years, when I was slowly, very slowly, working up to the presidency (which in most States included the real ownership of the road), one morning the small train boy whose business was to count the hungry and report, wired to the proper station ahead and ordered breakfast for three railroad men and one gentleman. Shortly after I decided to become a poor and honest nurseryman.

Our firm has very little trouble in collecting. According to our experience, the nurserymen are nearly all good payers. There are many ways to investigate customers; for instance, commercial agencies, banks, etc., from whom good information can be obtained regarding the financial ability of new customers. I know that a great many of the old dead beats have gone out of the nursery business, but believe those left generally operate with the new or younger concerns. I remember, many years since, receiving an inquiry for stock from one of whom I had no information. The letter read that he had seen several consignments of my stock, and pronounced it all first-class in every respect; that the writer had been buying stock from Mr. So-and-So; that his stock was inferior, so was the grower thereof, etc. I quoted the bill; then came the telegram (usual in such cases) to ship immediately. I shipped the stock, and it served me right that I never got a cent for it, but the experience was valuable. I have heard that out in Nebraska or Iowa (I forget which) they have a very effectual way of collecting. The only real qualification the collector must possess is that of being a persistent and consummate sitter. (Some of us could fill such a position.) So the collector, dressed in a bright red suit, with a bright red hat, calls at the house of the debtor, rings the doorbell, hands in the bill, and then, not for the amusement of the occupants of *that* house, but for the neighbors and passersby, the collector sits on that doorstep all day, or several days, if necessary, until the bill is paid. One of our young members from Alabama (he doesn't, as a collector, need any red suit) wrote me recently regarding an unpaid check. "One John Blank (we will call him) sent us a check for $50 for some stock; we shipped the stock, but the check was not paid because John had no money in the bank, and we couldn't jug John because the law in that State wasn't built that way. Three or four years afterwards, in returning from St. Louis, I stopped off to interview John. He had gone out of the nursery and into the insurance business; was very busy with two men when I called, and asked me to return at twelve o'clock. On my way to the hotel, I passed the bank, and thought just for fun I would go in and ask the cashier how it was. When I presented the check the cashier said 'Lord! there's that old check.' He took down the book and said there was $52 to John's credit and that he would pay. As he was counting out the money he said, 'But won't John cuss!' At twelve o'clock I went to the appointment, and John's first words were, 'I'm powerful sorry, but I'm unable to take up that check.' I replied, 'Oh, the check is all right; I've just been to the bank and got it cashed.' And then John cussed."

Many years ago Lafayette, on his way through our village—Fredonia—was fatigued, stopped there and sat down and rested. We all strive strenuously and continuously to emulate his example. The reason why we haven't come here before is that we have been sitting down waiting for you to come and see us. We have a large schoolhouse, a *very* large schoolhouse, but I never had much use for them. As I remember, when a kid I would much rather have gone to jail. Then we have a band and a sawmill, and, by the way, the leader of the band who furnishes music ostensibly for dancing, incidentally for deportment, is also the industry captain of the sawmill; hence the name "Buzz-saw Band." Fredonia was the very first town in America to be lighted with natural gas, and although the supply thereof has largely diminished, I do not feel it necessary to furnish you here any further evidence that the product is not yet entirely exhausted. As a certain statesman (Flanagan, of Texas, I believe) once observed, "What are we here for?" I think I can answer for many: Not for the offices, but to have a royal good time; and we're having it, and we're glad we've come. Some of us are coming again If I were a young man I'd stay here and live, and grow up with the country.

When we depart, some of us will return to our homes and resume our usual labors, some will travel or visit and live on absent friends, and some will seek the solitude of the wilderness, where abound the gamey trout and bass. At such places, when the day has passed, the twilight faded, the dying embers of the camp fire will remind you that the few of us left will soon pass away. There are no sounds except the gurgling of the brook, the low, soft singing of the pines. With a single companion you are all alone with nature. Then your thoughts may turn to home and to the trusted loved ones who are there, faithfully carrying out your plans. Then perhaps, if the scene is too sombre, perchance you will fill the pipe, or empty the jug (or do both); then through the darkness and grimness of the primeval forest, accompanied by the babbling brook, the soft music of the pines, the stern solitude of nature is softened by the happy notes, old to the town, new to the woods, of that joyful, cheery evening song:

"Everybody Works but Father."

NURSERY AC

For the purpose of getting up-to-date ideas in modern nursery accounting large establishments. Every house seems to have its own methods and there is but sale, retail, agency, mail order and dealer's trade require different methods. I give is in response to a long standing request that I pass these ideas on to the NATIONAL

VARIOUS METHODS OF RE

APPLE No. 1 3-4

I.

SUPPLY.	TOTAL.	Aiken.	Ben Davis.	Baldwin.	Clayton.	Duchess.	Fall Rambo.	Early Harvest.	Falla-water.	Gr. Golden.
Upper block..	6,664	210	3000	100	126	1110	560	100	210	
Block No. 2...	11,674	60	910	80	300	900	670	54	10	1100
Cellar.....	4,000									
Storrs & H.Co	1,800					1000				
Lake.	1,000		1000							
	25,138	270	4910	180	426	3010	1230	154	220	1100
SALES.										
S. Jones.....	470		210		10		60			100
Brown Bros...	150	50								
Green Co.....	750		250			500				
Commission ..	2,842	12	47	86	97	182	53	3	28	100
Black Bros....	900					600				

II.

PEACH.		SUPPLY	SALES
		3-4 to 1	
A Dwy.....		121	
2321.....			McN. & G. 100

III.

SUPPLY.	PRICE.				
20,000	Hydrangea p. g.,	12–18 in. tr.,	60	5	50
6,000	" "	2–2½ ft. tr.,	75	6 50	65
3,000	" "	2–3 ft. tr.,	85	7 50	75

IV.

	EA. FULTON.				FAMEUSE.			
	5-6 ft. 11-16 up	4-5 ft. 5-8—11-16	4-5 ft. 1-2—5-8	3-4 ft.	5-6 ft. 11-16	4-5 ft. 5-8—11-16	4-5 ft. 1-2—5-8	3-4 ft.
Stock on hand								
Sales								

COUNTING.

J. W. McNARY, Xenia, O.

for use in my own office, I recently requested sample blanks from several of the
little uniformity in nursery accounting. This is perhaps necessary, as the whole
herewith four forms of stock books now in use. They are self explanatory. It
NURSERYMAN. Those having better methods should give us the benefit of them.
Respectfully, J. W. McNARY, Xenia, O.

CORDING NURSERY STOCK.

INCH AND UP.

Gideon.	Gano.	Haas.	Hol. Pippin.	Mds. Blush.	M. B. Img	N. Spy.	N. W. Greening.	Opalescent.	Price's Sweet.	Rome Beauty.	Stark.	Stayman.
560	1110	128 40	980	410	1600	890	150 670	3500	560	500 800	1100	640
560	1110	168	980	410	1600	890	820	3500	560	1300	1100	640
60	10	8						2 100	10			
17	47	9	96	84	501	197	212	576 300	42	87	246	102

5-8 to 3-4		9-16 to 5-8		1-2 to 9-16	
400	Storrs & H. 300	800	Chase Bros. 800	1000	Borkman 400

	SALES.
	3,000 Smith 17,000. 500 Black 16,500.
	100 Brown 5,900. 250 Clark 4,650. 350 Western 4,300.
	500 White 2,500. 160 Green 2,350.

FLORAL BELLE.				FALL PIPPIN.				FALL ORANGE.			
5-6 ft. 11-16 up	4-5 ft. 5-8—11-16	4-5 ft. 1-2—5-8	3-4 ft.	5-6 ft. 11-16	4-5 ft. 5-8—11-16	4-5 ft. 1-2—5-8	3-4 ft.	5-6 ft. 11-16	4-5 ft. 5-8—11-16	4-5 ft. 1-2—5-8	3-4 ft.

Doings of Societies.

OREGON STATE HORTICULTURAL SOCIETY.

HOLDS CHERRY FAIR AT SALEM.

The western papers report a most successful meeting of this Society at Salem, on July 7th and 8th. The Oregon Nursery Co. took a prominent part in perfecting and carrying out arrangements for the instruction and comfort of the visitors. Among the speakers were, Col. H. E. Dosch, Professor C. I. Lewis, horticulturist of the State College of Agriculture, and Mr. M. McDonald, of the Oregon Nursery Company.

Mr. M. McDonald read a very interesting paper on "The Cherry of Oregon." He stated that the committee in charge of the fruit exhibit had worked hard to make it a success and the magnificent display is an object lesson for the growers of Oregon. All of the varieties shown are natives of this state, with the possible exception of the Royal Ann, and no other cherries can excel them. The people of Oregon could well make an effort to erect a monument to the names of Seth Lewelling and J. H. Lambert for originating the improved varieties of cherries which have made Oregon so famous the world over as the greatest cherry producing state. The Royal Ann cherry stands to-day as the best cherry for canning purposes, and no state has such soil for its growth. It is an early ripener, and is closely followed by the Lambert. Some cherry of like quality should now be originated to follow the Lambert, thereby making a continuous season of cherries for the summer.

H. S. Giles of Portland said. "Concerning varieties for packing purposes and fresh shipment, I should say the Bing, the Lambert, and the Royal Ann are the three best cherries we may expect to do business with, on account of their size. If, for any reason, the market does not justify shipment, these varieties are always in favor with the canners, and perhaps these varieties might also be improved upon. Perhaps the Royal Ann could be brought down to ripen a bit later to avoid the rain which we frequently have about the maturing time; this is one great and good characteristic of the Lambert and Bing.

GRAPE CULTURE.

W. K. Newell on the subject, "Grape Culture in Oregon," said: "We might do a great deal more in grapes than we are now doing. Eight years ago we succeeded in stopping the importation of Concords from New York into our markets, but we are still buying large quantities of California grapes annually. We should grow more of the California varieties. It is well known that Oregon is the best country on earth to grow grapes. The finest Tokay grapes are to be had in Oregon. I don't advocate growing the European varieties in the Willamette valley; grow only the Americans. Grape growers should pick out hillside locations for their vineyards in order to make a success of grape culture. The elevation should be from 200 to 1000 feet. Perfect drainage is necessary. The soil on which our hazel and fir grow is good for grapes. Plant four-fifths of the vineyard to Concords, get some Moore's Early and several other popular varieties. The trade demands a black grape. Buy yearling vines. Plant them from the middle of March to the first of May—about the middle of April is the best. Rows should be 10 feet apart and the vines 8 feet apart in the row. All of the American varieties should be trained by the trellis system; the Europeans on the stump. The trellis posts should be four feet high with a top wire and the lower wire should be 16 inches above the ground. Cut the vine back to just come under the first wire. Summer training should be practiced. About the middle of June pinch the ends of the shoots, and about a month later go over them the second time in the same way. The old style of training is not being used any more. Keep plenty of foliage on the vines, as the best grapes grow under the heaviest leaves and next to the ground. The trade demands the American varieties, and in baskets of four to eight pounds. Europeans should be packed in boxes. Don't pick grapes until after 9 a. m., so there will be no moisture adhering to them. Grapes can stand twenty-four hours after being picked before it is necessary to get them to market. This is one thing in their favor. The present high express rate precludes their being shipped in small quantities."

OREGON FRUIT INSPECTORS.

A meeting of the county fruit inspectors of the State was held at Salem on Saturday afternoon to consider the inspector's duties in regard to a uniform enforcement of the law throughout the State. The *Daily Oregon Statesman* says:

"It was decided that no wormy fruit, or fruit affected with San José scale will be allowed on the market in the future.

"Dealers or persons who handle fruit, will be held responsible for the condition of the fruit found in their possession.

"Peddlers will not be allowed to sell diseased or infected fruit, and will be held strictly accountable for the kind of fruit that is found in their possession and offered for sale.

"The law provides a severe fine whenever violated and whenever necessary the same will be enforced."

THE HARRISONS TO ENTERTAIN THE MARYLAND HORTICULTURAL SOCIETY.

The summer meeting of the Maryland Horticultural Society will be held at Berlin and Ocean Grove, August 8th and 9th. At this meeting the Society will be the guests of Messrs. J. G. Harrison and Sons. One feature of the meeting will consist of a drive through the thousand acres of nursery stock grown by this enterprising firm. Another will be a night and day session at Maryland's popular summer resort, Ocean City, where the finest beach on the Atlantic coast is found, and where surf bathing is a delight without danger.

Program of the Summer Meeting of the Maryland Horticultural Society, Berlin and Ocean City, August 8th and 9th.

WEDNESDAY, AUGUST 8TH, 1906, BERLIN, MARYLAND.

1.00 P. M. Dinner in Berlin Manner Grove.
2.00 P. M. Short meeting in Grove.
Introductory remarks—Pres. E. P. Cohill.
Address of welcome—Hon. Orlando Harrison, Mayor of Berlin.
Response—Hon. Chas. G. Biggs.
Address—R. W. Silvester, Pres. Md. Agr. College. (We also expect to have Prof. F. A. Waugh, Horticulturist of Massachusetts Agricultural College, to address us at this time).
4-7 P. M. Tour of the nurseries consisting of about 1,000 acres.
8.00 P. M. Take train for Ocean City. 8.30 P. M. Supper.
9.00 P. M. Evening on the beach.

THURSDAY MORNING, AUGUST 9TH, OCEAN CITY, MARYLAND.

9.00 A. M. Meeting called to order by Pres. Cohill.
Announcements. Questions.
Reports from representatives of visiting Societies.
Address—"Practical Co-operative Transportation Work of the Atlantic and the Gulf State Growers." Prof. L. C. Corbett, Horticulturist, U. S. Department of Agriculture.
(We expect to have Prof. Jno. Craig, Horticulturist at Cornell University, to address us at this time.)
"Fruit Prospects in Maryland for 1906." Prof. W. N. Hutt, Horticulturist, Maryland Experiment Station.
For further information address Secretary T. B. Symons, College Park, Md.

Quiz Column.

NURSERY MANAGEMENT.

Editor of THE NATIONAL NURSERYMAN :

Our apple trees in nursery are making poor growth from some cause unknown to us?

How should we manage them to make rapid growth?

Would it be advisable to sow some kind of a covering crop between the rows late this fall? If so, what should we sow, and how should we manage it?

We can't secure very much manure here, and must depend on some kind of a cover crop.

Our land will probably make about twenty bushels of corn per acre. E. W. J., Virginia.

Answer. The slow growth of your trees may be due to a variety of causes, possibly growing them on ground which has been nursery-cropped for several years; possibly the soil is in an impoverished condition; possibly merely in a poor physical condition. The remedy for the first is a rotation of crops. Give the land a rest from nursery crops by seeding it to clover or by using some other farm crop and fertilizing generously. The remedy for the second is fertilizing and good tillage. The remedy for the third is the same as for the first, viz.: giving plenty of humus and possibly looking carefully into the matter of drainage. In your vicinity probably cow peas are the best crop. Use cotton seed meal or whatever commercial fertilizer you can buy to the best advantage, purchasing on the basis of the amount of plant food it contains, with your cow peas, plow under and gradually build your soil up in this way. I should think that you could use crimson clover in the nursery row to advantage. Sow this about the first of August on your soil, which is well cultivated of course, and secure such growth as is possible from it between that time and the close of the season. It can be worked under the following spring and will certainly add something to the soil. It might be well to use nitrate of soda at the rate of two or three hundred pounds to the acre (broadcasted) at the time of sowing your crimson clover, but one should be careful about using a nitrogenous fertilizer at this time of the year, for the reason that it might stimulate a late growth of stock, which would be disadvantageous. F. A.

DAMP CELLAR A QUESTION OF DRAINAGE.

NATIONAL NURSERYMAN :

Last year we built a large storage cellar, entirely of rock, the walls 18 to 24 inches, good lime mortar between, and afterwards cemented the mortar on the outside with No. 1 Portland cement, making, as we thought, a very good wall. We erected this building on the slope of a northwest hillside, we dug down above, making about five feet of the upper wall against the clay or rather filling in with clay afterward to the slope of the hillside (after the wall was well cemented) and packed well of good firm red clay, but the water during the long rains this winter runs into or comes under walls above and at one end, though not much, and it seems to get less each long rainy spell, but how to remedy this we would be pleased to know. There are about three feet of upper wall above ground and seven on the lower side and a trunk that runs out any water, having a fall of 24 inches to level of land below. But whether to take out this clay that has been backed and filled in around the walls and mix with fine gravel and rock and pack well, or when summer comes if it will not dry out that it will not run in afterwards, or would a cemented floor be better, or practicable.

Very truly, VALDESIAN NURSERIES.

Answer. Of course it is a little difficult to say, speaking at arm's length as it were, where the exact difficulty in connection with the drainage of your cellar arises. I should think, however, that there were two things you would have to guard against. One is surface drainage from the ground, and the long run off from the eaves. The other is seepage or sub-surface water. The first factor can be taken care of by collecting and carrying off the roof water by spouts conducted into a tile drain running a foot or so below the surface of the ground, and parallel with the side of the building. It should be carried to a point below the building, so that it is not likely to back up and soak the soil. If you suspect the water to rise from the lower strata, then you will be obliged to dig down to the base of the cellar wall, and lay a drain here to cut off this inflow. An ordinary tile three or four inches in diameter laid parallel and about on a level with the base should take care of water from this source. I imagine that your greatest difficulty is with the sub-surface water. In the case of building against a clay bank difficulties of this sort often arise. H. A.

Business Movements.

Mr. J. E. Hoffmire leaves for Europe via S. S. Kaiserin Auguste Victoria next Thursday, the 19th inst., on a business trip in the interests of McHutchison & Co., importers, New York.

Southern Nursery Company, of Winchester, Tennessee, are in need of the following stock for early fall shipment: Figs, Japan Persimmon, Cut Leaf Weeping Birch, Camperdown Weeping Elm, Kilmarnock Willow, Gooseberry, Raspberry, Blackberry, Bechtel's Double Flowering Crab, Tree Hydrangea, Azalea mollis, Trifoliate orange Rhubarb.

Southern Nursery Company, Winchester, Tennessee, offer a large assortment of two-year apple, one-year apple (buds), one-year peach, peach (June budded), plum on peach, cherry, pear, Orange quince, roses and millions of strawberry plants (50 varieties).

CHANGE IN FIRM OF W. M. PETERS' SONS.

The firm of W. M. Peters' Sons was mutually dissolved on June the 27th, Reese C. Peters buying the plant at Ironshire, Md., which comprises about the entire plant of the above firm.

Reese C. Peters has associated with him his two sons, Alfred W. Peters and Norman M. Peters, and will carry on the nursery business under the firm name of R. C. Peters and Sons, succeeding the firm of W. M. Peters' Sons. Writing to THE NATIONAL NURSERYMAN, Mr. Peters says: "We wish the trade as well as planters to know that this is no new venture with us. We have grown up with the business. We have had full charge of the growing, budding, digging, grading, packing and shipping for the last twenty-five years for the firm of W. M. Peters' Sons. R. C. Peters, being the son of W. M. Peters, has had over forty years' practical experience in the business. We will carry on the business in the same careful, straightforward manner in the future as it has been carried on in the past, with the view to increasing the quantity, vigor, smoothness, uniformity as to grading and packing, putting out nothing but first class stock in every particular."

D. Garner, of Driftwood, Texas, reports a successful year's business. Mr. Garner has somewhat recently entered the nursery field and is working hard to build up a substantial business.

CHANGE OF LOCATION.

Thos. E. Burrows, formerly of New London, Conn., is now established at Deep River, Conn., where his patrons will find him ready to talk trade.

ANNOUNCEMENT.

George Achelis announces that he has formed a corporation to be known as "The Morris Nursery Company," West Chester, Pa., with George Achelis as President, Peter A. Keene, Vice-President, and M. G. Lear, Secretary.

Mr. Keene, the Vice-President, has been engaged for over thirty years in the Nursery business, and was formerly a member of the firm of Keene & Foulk (Bloodgood Nurseries), Flushing, N. Y.

The stock will be grown at the old location in West Chester, Pa., under the personal supervision of George Achelis, who has had over 40 years' experience as proprietor of the old Morris Nurseries. It will be the aim of all the above members of the corporation to give satisfaction by sending out fine stock.

The Morris Nurseries are too well known to need any introduction. They were established in 1849 by Paschall Morris, after whom the nurseries were named. He was succeeded by J. L. Darlington & Co.; then in 1866 succeeded by Otto & Achelis, and since 1875 Mr. Achelis has been the sole owner.

Your patronage is solicited. Catalogues sent free of charge to anyone desiring the same. Please address all communications to

THE MORRIS NURSERY COMPANY,
July 1906. West Chester, Pa.

Geo. Achelis and Wilmer W. Hoop of West Chester, Pa., called on nurserymen in Rochester and Geneva last month.

Our Book Table.

"The First County Park System," by F. W. Kelsey, has been very kindly received by reviewers, as is seen by the following :

As a compilation it is marvelous, and evidence of the author's close touch with the movement from the beginning. No one else could have done it so well.—FRANK H. SCOTT, *Pres., The Century Co.*

The whole work shows an exceedingly careful review of the progress of the movement and an intimate knowledge of municipal affairs. To civic improvers and landscape architects generally this book will prove most valuable. As a chapter in municipal history it is a noteworthy contribution.—*National Nurseryman.*

The book is well written, well printed and elaborately illustrated. It should be read by the people to let them see the difficulties as well as the advantages of a county park system.—*Jersey City Journal.*

In the striking description of the work and his personal experience with it, Mr. Kelsey has unfolded a story of great importance, not only to all those interested in civic improvement, but to every citizen who, in Secretary Bonaparte's striking phrase, wishes so hard for good government as to make bad government impossible. The volume contains most valuable information and is beautifully illustrated. A county map in colors shows at a glance the parks and proposed parkways.—*House and Garden, Philadelphia.*

Published by J. S. Ogilvie Publishing Company, P. O. box 767, 57 Rose street, New York.

"Entomology with Special Reference to its Biological Economic Aspects," by Dr. Justus Watson Folsom. Published by P. Blakiston's Son & Co.

This book has been written with the aim of giving a comprehensive and concise account of insects, and in an effort to provide a textbook for students which treats the subject of entomology primarily from the biological and practical standpoints. The numerous illustrations are chiefly from the author's original drawings and much material not hitherto available in textbooks has been introduced in this volume. It is an octavo of 485 pages, containing five plates, one of which is colored, and 300 other illustrations. It sells for $3.00 net.

The book is an attractive one. It treats insects from the human interest side and brings to the fore many points usually omitted in the ordinary treatise on entomology. We cannot judge the accuracy of the statements but the subject is most interestingly handled.

A PERSONAL EXPLANATION.

THE NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Gentlemen :—

It has been the intention of the writer to explain in regard to the dissolution of the firm of W. M. Peters' Sons. The firm of W. M. Peters' Sons, Snow Hill, Md., has been dissolved upon a perfectly satisfactory basis to the brothers, Chas. M. Peters and Reese C. Peters, and for reasons that they concluded would be for the best interest of themselves and their families.

In making this division, one takes all the real estate, nursery stock and other personal interest at Ironshire, Md., where Reese C. Peters has resided since the purchase of the real estate there, and where the greater part of the nursery stock has been grown for the last fifteen years. The other takes the interest at Snow Hill, Md., Queponco, Md., being the nearest shipping point, six miles distant. He takes all the interest in real estate, nursery stock and other personal property there.

Each has deeded to the other and signed papers transferring the properties, so that Chas. M. Peters becomes the successor to W. M. Peters' Sons at Snow Hill, Md., and Reese C. Peters succeeds W. M. Peters' Sons at Ironshire, Md.

In making this division, the financial standing of either of the brothers is not impared in any way, nor should the division effect the confidence of the public in doing business with either brother, as both brothers will, in the future, continue to do business practically under the same management and use their influence in each other's interest, so far as it is possible. Reese C. Peters will continue to grow and sell a general line of nursery stock, while Chas. M. Peters will, in all probability, make a specialty of growing grape vines and other small fruits. The business will, therefore, not conflict.

It will probably be two years or more before I shall be in a position to propagate nursery stock outside of grape vines, of these I shall have a large stock to dispose of the present fall and next spring. So you see that we shall be in a position to assist each other in a general business way. And our customers, old and new, will be really getting the same service as they enjoyed before our dissolution. One advantage that my brother has is that he has two sons, who are going to take an interest with him ; which should mean a great deal in carrying on the business successfully and encourage the enlargement of same. His location cannot be bettered in any way, and I look forward to him and his sons building up a business that will keep the name of Peters before the public for another generation at least ; and there is no reason they should not enjoy the same respect and confidence as did the firm of W. M. Peters and his successors, W. M. Peters' Sons. This dissolution was consummated on June 27th, 1906.

Yours truly,

Snow Hill, Md. CHAS. M. PETERS.

TEXAS STATE HORTICULTURAL SOCIETY—TEXAS NURSERYMEN'S ASSOCIATION.

These organizations held a very successful meeting in connection with the Texas Farmers' Congress at College Station on July 10 and 11. Prominent among those who contributed to the program were Messrs. E. W. Kirkpatrick of McKinney, Edward W. Knox of San Antonio, Professor T. V. Munson of Denison, John S. Kerr of Sherman and Stanley H. Watson of Houston.

In the Horticultural Society and Nurserymen's Association a number of important subjects were discussed.

After the address of welcome by Prof. E. J. Kyle and the response by J. S. Kerr of Sherman, the annual addresses were delivered by President E. W. Kirkpatrick of the Nurserymen's Association and President E. W. Knox of the Horticultural Society.

J. F. Sneed of Tyler then discussed the importance of ornamental trees about the home and W. A. Stockwell read a carefully prepared paper on drainage in the coast country.

The subject of the nurserymen's relation to the civic improvement movement was handled by F. T. Ramsey of Austin and E. W. Knox of San Antonio.

Prof. A. F. Conradi, State Entomologist, read an able paper on the San José scale and citrus fruit insects in Texas, and Prof. A. W. Orr, State Nursery and Orchard Inspector, reported on the work of his department.

The day's program closed with a discussion of the best types of apples for Southwestern orchards.

NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Gentlemen—The copies of the NATIONAL NURSERYMAN have been received O. K. You simply did yourself proud in the last issue. We are going to entertain the Maryland Horticultural Society on August 8th and 9th.

J. G. HARRISON & SONS.

THE NATIONAL NURSERYMAN PUBLISHING CO.

Gentlemen:—Your notice, calling my attention to the fact that my subscription to the National Nurseryman expired with this issue, is received and as the rule which says "never discharge the salesman who well earns his money" is acted on in my business, I will attach my check of $1.00 net, for a renewal of my subscription.

Humphrey, Nebr. H. J. BACKES.

CARLOAD PECAN TREES.

A single shipment of 10,000 grafted pecan trees was made in January by the Nut Nursery Company, Monticello, Fla.

SOCIETY FOR HORTICULTURAL SCIENCE.

SUMMARY OF PAPERS READ AT THE CORNELL MEETING JUNE 27-28.

President L. H. Bailey was on the programme for an address on the field for experiment in horticulture. Prof. John Craig presented a paper on plant growing by artificial light. Prof. Lazenby spoke on plant growing under different colored cloths. Unfortunately these papers have not yet come into the reviewer's hands and hence abstracts of them can not be given at this time.

SUMMER VARIETIES HARDIEST.

Mr. W. T. Macoun spoke on the relation of winter apples to hardiness of trees. To withstand a test winter at Ottawa, a tree or shrub must ripen its wood early. Winter killing is liable to be more severe after a season when the growth has been strong than when it has been short. The more moderate the climate where a variety originates, the less resistent is it to winter killing. The hardiest two varieties of apples are those that have originated in Russia and are summer or autumn varieties. This is because these ripen their wood most thoroughly, whereas winter varieties continue growth later in the season. Unless the fruit of a variety reaches a certain, but as yet undetermined, stage of development every season a certain time before it has to be picked, owing to danger from frost, that variety is not a safe one to plant. The basis for the production of the desired winter apple for the north should be a variety which has withstood test winters in a similar climate and is also the latest keeper of such varieties.

Prof. William Stuart presented a general discussion of the use of anesthetics in the forcing of plants and summarized his own experiments with rhubarb. The experience of a number of investigators indicates that some classes of plants will stand larger doses of anesthetics than others. As a rule these doses vary from 7 to 15 c. c. per cubic foot of air space. The time of treatment varies with the season of the year, the class of plants and the temperature at time of treatment. As a rule this variation is from 24 to 72 hours. Etherization of rhubarb plants for winter forcing results in an increased yield. Freezing, at least early in the season, is a necessary process. Etherization does not seem to perform the same function as freezing. Actual freezing for late forcing may not be necessary.

THE HOW OF CROSS-BREEDING.

In a paper on pollination methods, Prof. S. W. Fletcher presented a symposium of his own experience and that of a considerable number of other plant breeders. The ideal time to emasculate blossoms is as late as possible before the anthers dehisce, but may be done when the buds are still quite small. If complete accuracy is not essential and when working on blossoms that do not mature stamens and pistils simultaneously, the blossoms need not be emasculated. In crossing, select mature trees of moderate growth and perfectly sound. On such trees select buds borne high up on the outside of the tree on well nourished branches on the side of the tree opposite from the direction of severe prevailing winds. As to the instruments for emasculating, in the majority of cases a small scalpel is to be preferred, especially for the stone and pome fruits. As to the location of the cut, the majority opinion is that it should be made at the insertion of the stamens above the nectary, though the author himself prefers to make it as high up as possible. The safest time to pollinate is near the beginning of the receptive condition of the pistils or perhaps twenty-four hours betore. A receptive stigma usually glistens when it catches the sunlight and in most fruits it is beginning to be slightly brownish. Brush pollinating is often most practicable when many blossoms must be pollinated in a short time. For our common trees however, some workers use the thumb or forefinger. As to the percentage of successes, seven pollinators of experience placed their averages variously at from 50% down.

Some phases of pollination were presented by Prof. N. O. Booth. The period during which fresh pollen is available for study may be lengthened by forcing twigs in the laboratory. If pollen is taken from the orchard at the normal blooming season it is advisable to take twigs with still unopened buds and let them open indoors. This assures freedom from foreign pollen. Pollen of the same variety differs greatly in germination when trees are grown under different conditions. Determinations of the percentage of the germinating pollen is an index to the capacity of such trees for self-pollination in such localities and hence for planting in solid blocks. Very few apple varieties have the pollen all good and none so far all bad, most varieties showing different proportions of mixed forms. Pollen from the same tree may differ with the condition of the tree. Tompkins King and Esopus Spitzenberg, among others, have notably weak pollen and are successfully raised only in neighborhoods where conditions are favorable for pollen production. Varieties with particularly strong pollen, as Jonathan and Ralls, are of wide adaptation and are often liable to overbear, the fruits being consequently under size.

TOP-WORKING CONSIDERED.

Prof. Fred. W. Card presented a symposium of experience as to the advantages of double-working apples on vigorous stocks. The value of top-working to increase hardiness of stock in a trying climate is unquestioned. It markedly reduces injury from certain diseases. Northern Spy especially promises to reduce injury from the woolly aphis in the South. Weak growing varieties are benefited by the practice. Early bearing can be promoted by top working on a weak stock, although at the expense of productiveness and doubtless of longevity. But for ordinary varieties in favorable regions the advantages of top-working are outweighed by the disadvantages.

COLD-STORAGE IN PREVENTING DECAY.

Mr. H. J. Eustace gave an account of investigations on apple decays in commercial cold storage. Several varieties of apples were inoculated with black rot, brown rot, bitter rot, soft rot or blue rot and a species of Alternaria, and at once put in a cold storage under standard temperature conditions, that is, where the temperature was held constantly at 30 to 32 degrees F. At the end of two months none of these diseases had developed except the soft or blue rot. Later when the inoculated fruit was taken ont of storage the other diseases also developed, showing that the low temperature of the cold storage simply retarded the fungi in their development but did not destroy them. In another experiment where the temperature ranged from 37 to 56 degrees, decays developed slowly except the soft rot ; but when the temperature ranged from 54 to 65½ degrees, all decays developed and in most cases very rapidly. Peaches similarly inoculated and held in cold storage two weeks had developed decays in about one-half of the specimens.

Mr. H. P. Gould described the recording of phenological date for pomological uses, as has been carried on by the U. S. Department of Agriculture for several years past.

The same officers were re-elected.

V. A. Clark, Secretary.

LAWRENCE, KAN., AS A NURSERY CENTER.

OTTAWA PAPER MAKES EXTRAVAGANT CLAIM IN REGARD TO NURSERY SHED.

A recent issue of an Ottawa paper told of a new packing shed of mammoth proportions that was being erected for a local nursery company. The size was given as 100 x 100 feet, which was said to be the largest in the State.

Lawrence can make a much better showing in this line. A. C. Griesa is now building a new brick packing shed 100 x 150 feet, which he will use in addition to his old shed. T. E. Grisea has a shed 100 x 125 feet, 16 feet high and well built, and to this he will soon build an addition 80 x 100 feet. E. H. Balco of the National Nurseries has recently completed a fine new shed 52 x 32 feet. G. L. Knight has a modern shed 80 x 150, with a two-story annex 25 x 25 feet.

The Lawrence Nursery also has a good sized shed across the river and several other nurseries have packing sheds of their own.

Ottawa will have to grow a bit before she can trot in the same class with Lawrence as a nursery center.—*Lawrence Journal.*

CONDITIONS IN DANSVILLE.

A recent visit to Dansville, N. Y., disclosed a very satisfactory state of affairs in regard to the growth of nursery stock. The season had been dry it is true, but on this bottom land good tillage does much to overcome difficulties of this nature. Fine blocks of stock were noted in many places. The writer was glad to shake hands with representatives of a number of the leading nurseries and was particularly pleased to find Mr. Geo. Sweet looking hale and vigorous and quite recovered from his late illness. J. C.

WHAT CALIFORNIA NEEDS IN THE WAY OF APPLES AND PEACHES

PROFESSOR E. J. WICKSON, UNIVERSITY OF CALIFORNIA.

APPLES.

Five apples lead all others by a wide margin in California, and these, in their order of prominence, are as follows: Yellow Newtown Pippin, Yellow Bellefleur, White Winter Pearmain, Gravenstein and Red Astracan. Fifteen others, also in order of approval, are widely favored, as follows: Rhode Island Greening, Esopus Spitzenberg, Missouri Pippin, White Astracan, Red June, Alexander, Baldwin, Early Harvest, King, Winesap, Fall Pippin, Jonathan, Skinner's Pippin and Ben Davis.

There is demand for new early varieties larger and better than the old for early ripening districts, where alone early apples are profitable; also for hot interior regions where they reach good quality before the coming of the high heat which ruins late apples by premature ripening; also for late varieties which can endure such heat without injury.

Specific needs are:

The appearance and keeping quality of the Lawver combined with the eating quality of the Yelllow Newtown Pippin.

A Yellow Newtown which does not grow in bunches and which will not crack at the calyx and rust at the stem; also with better foliage and resistance to woolly aphis.

A good variety, preferably red, to ripen between Skinner's Seedling and Yellow Bellefleur.

A red variety to load with Yellow Bellefleur, for the Australian trade in September and October. Red Pearmain is used for this purpose, but it does not get the flavor and color desired; also a variety to ship in August with the Gravenstein.

A variety with the spicy flavor of Esopus Spitzenberg and skin of Yellow Newtown Pippin.

A good large red apple for a late keeper.

Varieties which will remain as dormant under high winter temperature as the Rhode Island Greening and be of different character.

Varieties resistant to Baldwin spot, or apple speck.

PEACHES.

The peach is the greatest deciduous fruit of California from a commercial point of view and varieties of it have naturally commanded keen interest. Twenty varieties which lead are given in the order of present popularity: Muir, Phillips' Cling, Salway, Lovell, Early Crawford, Tuskena, Foster, Elberta, Late Crawford, Orange Cling, Susquehanna, Nichol's Cling, Seller's Golden Cling, Lemon Cling, St. John, Henrietta, Mary's Choice, Hale's Early, Alexander, Heath. Of the first four, three are California seedlings.

In spite of the valuable points of the score of varieties named and another score which follow them in favor in different parts of the state, there are still specific requirements to be met by varieties not yet widely known here.

Better early varieties with richer flesh and free stone.

Two good clingstones to ripen between Tuskena and Phillips' and as good as they are.

A good yellow freestone to bear and hang on the tree as well as the Muir, but to ripen just before Elberta.

A good yellow freestone between Late Crawford and Salway. This is one of the worst breaks in the peach crop.

Larger clings with the character of Phillips'; also one with small pit, color, flavor and texture of Phillips' to ripen with the Lemon Cling.

A freestone to ripen with Early Crawford and with same size, flavor and juiciness, but with the color and small pit of the Muir and free from the red of the Lovell.

As good a freestone as the Lovell to ripen before or with Tuskena.

A good bearer free from curl leaf to replace the Yellow Crawford.

A yellow cling as prolific as Tuskena and with few double pistils, to come between Tuskena and Henrietta.

An Elberta which does not dry away so much and in such danger of overdrying.

Varieties as good as Muir, but both earlier and later.

Good yellow freestones, better quality than Elberta but other points as good, ripening before Salway. This gap is now chiefly filled with clings.

A yellow peach early as Triumph, but with higher color, larger and freer.

Canners need freestone peaches like the Lovell and Muir to ripen with the Foster; Crawford; Foster and Salway have the undesirable character of redness at the pit in varying degrees. No peach that ripens from within as the Salway does, is suitable for canning. Of clingstones from a canner's point of view, Nichol's is good; the pit of Seller's is too large and irregular. The Tuskena comes at the right time, but is too small and if forced with irrigation splits at the pit. Lemon Cling is small and often red at the pit. Henrietta is large and sightly, but has greenish flesh and is very red at the pit. Phillips' answers every requirement of the canner: good shape, yellow flesh, small pit and no red center. But the grower needs a Phillips' which is a stronger grower and free from curl leaf. Canners require cling peaches averaging 2½ to 3 inches in diameter.

It is a very interesting fact that varieties of the Peento, or China Saucer, strain are exhibiting indisposition to start irregularly in the winter heat of some parts of the state and may prove valuable for local markets by bearing when others are very irregular, because of winter activity and spring dieback. The Elberta is, however, doing better than most others under such conditions.

B. A. MATHEWS IN A RUNAWAY.

NURSERYMAN HAS NARROW ESCAPE FROM SERIOUS CONSEQUENCES IN THRILLING RIDE UP COMPETINE HILL.

B. A. Mathews and Isaac Overton had an exciting experience in a runaway accident on the Attica road, between Mr. Mathews' nursery and town, Sunday morning about ten o'clock. Mr. Mathews was coming in from the nursery with some berries when he was overtaken by Mr. Overton, in a buggy, at a point about 100 yards south of Competine bridge. Mr. Overton halted for a few seconds to allow Mr Mathews to get into the buggy, and just as the latter got comfortably seated, the trouble began. It is thought that Mr. Mathews' dog ran under the buggy and frightened the mare. At any rate the animal commenced to kick and run, and soon had things going in lively fashion. Mr. Overton, who had one foot idly hanging out of the buggy, had the first real experience. His foot was caught in the wheel, which, of course, pitched him out in the road. That left the horse without a driver and the lines dragging. By that time the mare was going at a furious rate of speed, with Mr. Mathews sitting helpless in the buggy, the animal kicking the rig to pieces as she ran. In that perilous situation, and perfectly powerless in the matter of even trying to guide the runaway, Mr. Mathews rode over Competine bridge, up the hill, past the Collins, Brobst and Casey residences, to the Schlotterback corner, where the mare disengaged herself from the wrecked buggy and came on to town with the crossbar of the rig hanging to the battered harness. Mr. Mathews was painfully hurt by being kicked on the left shin. He also had one of his hands bruised by being caught in the uprights which hold the buggy top in position. Dr. C. W. Cornell took several stitches in Mr. Mathews' wounded limb, and is still looking after the injured man. Mr. Overton was not hurt beyond a serious shaking-up in falling from the buggy.—*Knoxville, Iowa, Journal.*

CHERRIES AT VINCENNES, IND.

The editor was so fortunate as to be able to enjoy the hospitality of the Messrs. Simpson during a recent visit to Indiana and Illinois. This is a most interesting place, the old town, the picturesque country, the varied flora, but particularly to us the cherry growing establishment of the Simpsons', of which we hope to write later.

The stock is looking vigorous and has made a thrifty growth, and best of all trade is brisk. Mr. W. C. Reed is located in this vicinity also. Just now he is doing Institute work in the State. J. C.

DIRECTORY OF PENNSYLVANIA NURSERYMEN.

Achelis, Geo., Westchester, Pa.

Altoona Nursery Co., Altoona, Pa.

Andorra Nurseries, Wm. Warren Harper, proprietor, Chestnut Hill, Pa. Established 1886. 500 acres. Specialty, large ornamental evergreens. Deciduous trees and shrubs, hemlocks, white pine, etc.

Armstrong, A. A., Chestnut Level, Pa.

Barnhart, Jacob, Bedford, Pa.

Batchelder, W. E., Giard, Pa.

Beachy, N. C., Allentown, Pa.

Bean, Wm., Cochranton, Pa.

Beckert, Wm. C., Alleghany, Pa.

Beckert, T. F., Coroapolis, Pa.

Blair County Nursery Co., East Freedom, Pa.

Bolton, W. P., Bonview, Pa.

Bolton, W. P., Liberty Square, Pa.

J. C. Boyd, Guy Mills, Pa. Established 1891. Have a full line of fruit, ornamental and shade trees, small fruit plants, roses, etc.

Boyd, R. C., Volant, Pa.

Brenton, Maurice J., Christiana, Pa.

Brenton, Wm. P., Christiana, Pa.

Brady, S., Mill Hall, Pa.

Burpee & Co., W. Atlee, Philadelphia, Pa.

Butz Bros., New Castle, Pa.

Battlefield Nurseries, C. A. Stoner, proprietor, Gettysburg, Pa. Established 1898. Peach and plum trees a specialty. A fine line of C. Poplars to offer.

Campbell, Norristown, Pa.

Chase, Howard A., Philadelphia, Pa.

Cheltenham Nurseries, Cheltenham, Montgomery Co., Pa. Established in 1857 by Robt. B. Haines. Carries a general line of nursery stock.

Clark, Giles L., Scranton, Pa.

Cooper, Calvin, Bird-in-hand, Pa.

Cromach, Wm., Irwin, Pa.

Conard & Jones Co., West Grove, Pa.

Corbin, L. C., Huntingdon, Pa.

Crouch, E. A., Rochester, Pa.

Dreer, Henry A., Inc., Philadelphia, Pa.

East Petersbury Nurseries, A. W. Root & Bro. proprietors. R. F. D. No. 1, Manheim, Pa. Grow a general line of nursery stock. Specialties, peach and apple, Norway maple and Carolina poplar.

Edwards, Arthur, Elkland, Pa.

Elden, R. E., Aspers, Pa.

Elliott, Co., G. R., Pittsburg, Pa.

Elliott Nursery Co., B. A. Elliott, mgr., Pittsburg, Pa.

Funk & Co., N. S., Boyertown, Pa.

Grove, W. E., York Springs, Pa.

Grove, W. E., Dillsburg, Pa.

Galen, Jas., Bonview, Pa.

Giffen, J. R., 1826 N. Willington St., Philadelphia, Pa. Thirty years in the nursery business. Handles hardy roses, thousands of them.

Goodwin, A. P., Industry, Pa.

Gass, R. A., Sunbury, Pa.

Glenfrew Farm, Edgeworth Station, Pa.

Glen Rock Nurseries, W. S. Newcomer, proprietor, Glen Rock, Pa. Apples, peaches, Norway maple, silver maple, Carolina poplar, and a general line of fruits.

Haennes Sons Co., McKinley, Pa.

Harglerode, U. S. G., Springdale, Pa.

Harper, Wm. Warren, Chestnut Hill, Pa.

Harnish, H. H., Chestnut Level, Pa.

Hamilton, J. E. North Orwell, Pa.

Heckler, J. B., Lansdale, Pa.

Hedrick, B. K., Perkasie, Pa.

Heine Nursery Co., J. E., Orwigsbury, Pa.

Hess & Sons, S. R,. Ephratah, Pa.

Hefflefinger, J. W., Greenvillage, Pa.

Hoopes Bros. & Thomas, Maple Ave. Nurseries, West Chester, Pa. Established 1853, with one acre of ground and one small greenhouse. There are now 600 acres, seven greenhouses. Large growers of all varieties of ornamentals and fruit trees, especially peaches.

Horn & Bro., John F., Alentown, Pa.

Janney, Horace, Newtown, Pa.

J. Krewson & Son, Cheltenham, Montgomery Co., Pa. General line of fruit and ornamental trees and shrubs, also importers of shrubs, Bay trees, etc.

Kane, Thomas F., Scranton, Pa.

Keller Bros., Morristown, Pa.

Keller, Asa S., Turnkhannock, Pa.

Kolp, M. A., Elizabethtown, Pa.

Koehler, Christian, Oxford Church, Pa.

Krewson, James & Son, Chettenham, Pa.

Lake Shore Nursery Co., Erie, Pa.

Laushey, O. W., Bird-in-hand, Pa.

Longsdrof, C. L., Floradale, Pa.

Landis, Jas. H., McCullochs' Mills, Pa.

Leffler, Daniel, Millersburg, Pa.

Laurel Hill Nursery, Scranton, Pa.

Malvern Nurseries, J. A. Roberts, proprietor. Malvern, Pa. Established 1869. Specialties: Small fruits, hedge plants, California privit, poplars.

Meehan, Thos. & Son, Germantown, Pa.

Meehan, Joseph, Germantown, Pa.

Moon, S. C., Morrisville, Pa.

McFarland, J. Horace, Harrisburg, Pa.

Mackall, R. C. & Bros., Beaver, Pa.

Mullur, Adolph, Hoyt, Pa.

Murdock, A. M. & J. B., Pittsburg, Pa.

Maynard, B. D., Union City, Pa.

Mackall, J. W., Beaver, Pa.

Meehan & Sons, Thos. B., Montgomery Co., Dreshertown, Pa. Founded 1854. Incorporated 1902. Makes a specialty of ornamental shrubs; the original introducers of the "Viburnam plicatum."

Maloney & Co., N. H., Erie, Pa.

Moore, Jas. B., Hatfield, Pa.

McGuire, J. M., Linesville, Pa.

Middleport Nursery Co., Middletown, Pa.
McAdams, J., Mt. Pleasant, Pa.
Moore & Simon, Philadelphia, Pa.
Martin, A. D., Scottsdale, Pa.
Mt. Airy Nurseries, Thaddeus N. Yates & Co., Mt. Airy, Philadelphia. Established 1869. Specialty, specimen transplanted evergreens, including the many varieties of Retinosporar, Blue Spruce, etc.
Newcomer, W. S., Glen Rock, Pa.
Neihoff, Paul, Leighton, Pa.
Nelson, Nels, Tamaqua, Pa.
Oldham, H. W., St. Mary, Pa.
Patterson, J. G. & Sons, Stewartstown, Pa.
Peters, John & Co., Mt. Holley Springs, Pa.
Prudential Orchard Co., Shermanville, Pa.
Pierce Bros., Butler, Pa.
Paxon, Walter, Holmesburg, Pa.
Palmer, Henry, Langhorne, Pa.
Park, G. W., Lapark, Pa.
Pratt, Maggie, Le Rayville, Pa.
Roberts, J. A., Malvern, Pa.
Rakestraw & Pyle, Kennett Square, Pa.
Root, A. W. & Bros., Manheim, Pa.
Reid, John, Jenkintown, Pa.
Reed, Wm. B., Chambersburg, Pa.
Roth, Theo., Nazareth, Pa.
Rife & Ulrich, Middletown, Pa.
Roth Theo., Nazareth, Pa.
Smeltzer, M. E., Wernersville, Pa.
Scholl, Calvin P., Fishersville, Pa.
Somerton Nurseries, Philadelphia Office 125 So. Fifth St., Philadelphia, Pa., Room 11. Ornamental trees, flowering shrubs and hedge plants (deciduous and evergreen).
Sullon & Son, H. S., Franklin, Pa.
Sturzebecker, Wm., Lansdale, Pa.
Swivel, J. E., Huntingdon, Pa.
Snyder, J. Peter, Huntingdon, Pa.
Toxel, J. C., Jonestown, Pa.
Thomas & Son, Jas. W., King of Prussia, Pa.
Thomas, Joseph, Greensburg, Pa.
Thornhedge Greenhouses, Newton Square, Pa.
The Conard & Jones Co., West Grove, Pa. Established 1807. Specialties, roses, cannas, shrubbery.
The Mountville Nurseries, David S. Herr, proprietor. Specialties: Shrubbery, rose, asparagus roots and young stock for wholesale trade.
The Wm. H. Moon Co., Morrisville, Pa. Established 1872. Incorporated 1890. 300 acres under cultivation. Devoted to growing choice ornamentals in all of its branches.
The William H. Moon Co., Morrisville, Pa.
Theilmann, E. E., Erie, Pa.
Venango Nursery Company, Cabel D. Sutton, president, Franklin, Pa. Established 1904. Do a general nursery business. Ornamentals a specialty.
Village Nurseries, Harnedsville, Pa.
Weyth, John, Westtown, Pa.
Willowdale Nurseries, Kennett Square, Chester county, Pa. Established 1866. Growers of fruit trees, shade trees, evergreens and shrubbery.
Wingert, H. E., Lancaster, Pa.
Wright, D. J., Clearfield, Pa.
Wright, W. S., Clearfield, Pa.
Wolf, Jas., Carlisle, Pa.
Wagner, Geo. A., Alinda, Pa.
Waldo, U. S., Miles Grove, Pa.
Wohlert, A. E., Bala, Pa.

Note and Comment.

CORNELL STUDENTS VISIT ROCHESTER NURSERIES.

Late in May a large delegation of students in the classes in pomology in Cornell University, under the leadership of Professor Craig, visited the fruit-growing and nursery regions about Rochester. At Ellwanger & Barry's they were received by Messrs. Barry and Miloy, and kindly shown through these historic and interesting grounds. At that time the lilacs were in their glory, and over seventy-five varieties of these magnificent ornamentals were examined. Herbaceous plants were also studied in great numbers, while the specimen collection of ornamental trees, than which there is none better in the country, was looked over with much profit and interest.

At Chase Brothers' the students examined with much interest the great storage house somewhat recently erected by that firm. The party was met here by Mr. William Pitkin, secretary of the company, who conducted them through the home grounds and explained the methods of handling stock in storage. Other places visited in Rochester were Highland Park and the Rochester Cold Storage Company.

Leaving the city, the party visited the great apple orchard of Foster Udell, at Brockport, the storage houses of Beckwith and Bahrenburg at Albion, the orchards of S. W. Smith, at Gaines, and Albert Wood, at Carlton Station. From point of entertainment and instruction, the excursion was most enjoyable and valuable.

PACIFIC COAST NEWS.

New Experiment Stations for California.—The State Legislature of California has made an appropriation which will make possible the establishment of two sub-experiment stations in the southern part of the State. One division will be a pathological laboratory, which will be located at Whittier. The other will be a testing station for citrous fruits. This is to be placed at Riverside. In addition, the variety tests methods of cultivation are to be studied. The whole work will be carried on under general direction of the State University.

California Fruit Grower.—Our contemporary on the Pacific coast re-commenced publication, with offices at Sacramento. The first issue after the fire was that of June 2nd.

State Insectary not Destroyed.—It is gratifying to know that the state building, in which the beneficial insects imported by the California Legislature, and being propagated for distribution in the fruit-growng districts, was not destroyed in the earthquake. The new parasite of the codling moth and a number of other beneficial insects were taken from the wrecked building, and are now re-located in an insectary in Sacramento, where the work of this division will in future be carried on.

The quantity of wine estimated to have been destroyed in San Francisco is about 10,000,000 gallons. This has had the effect of advancing the price from ten to twelve cents a gallon.

WANTED

A thoroughly reliable nursery foreman of experience, and capable of taking charge of a large nursery. Must be sober and industrious, and understand packing, propagating and general nursery work.

Address C., care of National Nurseryman, Rochester, N. Y.

RHODODENDRONS!

10 to 15 inches 20 to 30 inches 40 to 60 inches

All good strong plants. 13 years experience.
All orders filled promptly. Write for cash prices.

J. M. PRITCHARD, Elk Park, N. C.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia,

Peach Seed

Headquarters for seed from every section. Make a specialty of natural grown seed. Low prices guaranteed and samples furnished upon request. Ask for our catalogue before buying elsewhere.

W. W. WITTMAN & CO.

(Established 1859.) 117 Hanover St., BALTIMORE, MD.

XENIA

STAR NURSERIES

XENIA, OHIO.

We have the following lines of superior stock to offer for Fall, 1906:

APPLE,
ST. PEAR,
CHERRY,
PLUM,
PEACH.

We have a full supply of the famous Opalescent Apple. Plates free.

An opportunity to submit prices on any of the above stock is respectfully solicited.

McNARY & GAINES.

When writing to Advertisers mention The National Nurseryman.

GRAFTED PECAN TREES

Our Specialty to the Trade.

We offer this season an exceptionally fine stock of trees of the improved large paper and soft-shell varieties at very reasonable prices.

Submit want list for prices and ask for Trade List, ready Aug. 15th.

THE NUT NURSERY CO.

J. F. JONES, Manager and Proprietor,

MONTICELLO, FLA.

Wanted, Nursery Foreman

to take full charge of a Nursery embracing about 200 acres where a genera line of stock is raised, principally Ornamental. Must be one thoroughly up to date. Good executive ability.

Such a man can secure a first-class position.

Apply with references, Z, care of National Nurseryman.

Carolina Poplar

If you want a tree or a carload write us.

We also have a general line of Nursery Stock to offer including Maple, Apple, Peach, both 1 year and June budded.

Giles County Nursery Co.

R. O. LAMAR, Mgr.

PULASKI, TENN.

When writing to Advertisers mention The National Nurseryman.

Apple Trees and Apple Seedlings

With usual supply of Cherry, Peach, and Plum Trees for Fall, 1906 and Spring, 1907.

GOOD STOCK,
GOOD GRADES.

L. R. TAYLOR & SONS,
TOPEKA, KANSAS.

Geneva, New York

Where hardy, thrifty, fibrous-rooted trees are grown.

We offer for sale a large assortment of Apples, Standard and Dwarf Pears, European and Japan Plums, Peaches, Currants, Roses, Herbaceous Paeonies, etc.

Let us quote you some especially LOW PRICES on the following:

BIRCH, Cut Leaf Wp'g 2 yr.,
MAPLE, Silver Leaf,
CAROLINA POPLAR, and a complete assortment of Shrubs.

Correspondence Solicited.

WILLIAM STREET NURSERIES.

T. W. & J. P. Rice, Prop's.
GENEVA, = = NEW YORK.

McHutchison & Co.

17 Murray St., New York

Sole Agents for United States and Canada for

VINCENT LEBRETON,
La Pyramide, Angers, France.
Wholesale Grower and Exporter of
French Fruit and Ornamental Seedlings, Manetti, Evergreens, etc., etc.

SCHAUM & VAN TOL,
Boskoop, Holland.
Large Growers and Exporters of
H. P. Roses, Clematis, Rhododendrons, Hardy Azaleas, Paeonies, Conifers, etc., etc.

H. W. VAN DER BOM & CO.,
Oudenbosch, Holland.
Largest Holland Nurseries of
Norway and Schwedlers Maples, Chestnuts, Thorns, Deciduous and Evergreen Trees of all kinds.

SPECIAL PRICES upon Japanese Maples, Sciadopitys and all Japanese Nursery Stock, also English and Foreign Nursery Stock of every description mailed upon application.

RAFFIA, Red Star Brand.
We are large direct importers. The Red Star Brand stands for quality. Write for prices.

SHIPMENTS: Import and Export attended to. Our facilities enable us to take advantage of lowest rates consistent with safety of perishable stock.
Write us. If in doubt, write us. If not, write us anyway.

McHUTCHISON & CO.
17 Murray Street, NEW YORK CITY.

WEATHER-PROOF
SHIPPING-TAGS
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Paper Tree Labels
FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

Notice to the Nurseryman.

I am ready to book your order for

PACKING MOSS

It is of best quality to be had and will give satisfaction in every way. Prices will be furnished on application. Orders also will be shipped promptly.

Address, **BERT MITCHELL, Valley Junction, Wisconsin.**

Dresselheim Nursery and Fruit Farm For Sale

with tools and live stock. All growing Nursery Trees and Stocks, with a lively home trade ten years old, also a good Boxing and Bailing trade.

Will Sell Cheap.

This is right in the cleanest place in the whole United States. Shipping facilities cannot be beat. A correspondence or visit is solicited.

G. L. DRESSEL, Frankfort, Mich.

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance Phone and Telegraph, Snow Hill, Md.

I HAVE TO OFFER

Orange Quince Buds

true to name. These are very fine. I trust you will favor me with an order, which will be shipped promptly. Write for prices.

JOHN TWOMEY, Geneva, N. Y.

Dreer's Herbaceous Pæonies

We will have to offer for September and October delivery an immense stock of Home Grown Pæonies in popular standard varieties, a special list describing these and quoting interesting prices is now ready. If you are interested drop us a line and a copy of same will be mailed to you.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

NEW YORK CENTRAL LINES

The Great Central Railway System of America

Operating more than 12,000 miles of railway east of Chicago, St. Louis and Cincinnati

COMPRISING THE

New York Central & Hudson River
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Lake Erie & Western
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W. FROMOW & SONS, THE NURSERIES,

WINDLESHAM, SURREY, ENGLAND.

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation, Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay Street, or P. O. Box 752.

Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

NEBRASKA GROWN

Apple Trees and Apple Seedlings

AMERICAN PLUM TREES

BLACK AND HONEY LOCUST AND CATALPA SEEDLINGS

Large, Medium and Small

Shade Trees

GRADES AND PRICES RIGHT. IF INTERESTED WRITE FOR PRICES AND VARIETIES.

Address

YOUNGERS & CO.,

GENEVA, NEB.

ESTABLISH YOUR NURSERY

OR A BRANCH

of it in the South. All Southern Nurserymen are prosperous, none of them have ever failed, because they do an immense volume of business and get good profits. Our most successful Nurserymen have come to us from other sections.

Southern land owners, fruit raisers, truck-growers and florists have accumulated hundreds of thousands of dollars. They've saved it. They took it out of the fertile soil of the South, and they are going to replant these savings year after year, for a still larger and more profitable harvest.

In ten years Virginia, the Carolinas, Georgia, Florida and Alabama, will be recognized as the greatest fruit and vegetable sections in America. The Seaboard Air Line illustrated monthly Magazine gives the reasons; you should know them and we will put your name on our complimentary mailing list upon request.

If you want a new location write us.

Seaboard Air Line Railway

J. W. White, G. I. A, Portsmouth, Virginia.

WABASH R. R.

offers unexcelled service
to the

WEST

FIVE DAILY VESTIBULED TRAINS

Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS

Buffalo to St. Louis

Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.

JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.

R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention The National Nurseryman.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS,

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES—30 acres, one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

For Fall or Next Spring

A full assortment of **Americana, Chickasaw** and **Japan Plum,** two and one year.

One and two year Pear, Cherry, and Quince.

Carmen, ELBERTA and **Greensboro June Buds,** all grades including **3-4 ft.** and **4-5 ft.**

Mulberries, Magnolia Grandiflora, California Privet and **Prairie Roses.**

Altheas and **Dwarf Box** for transplanting.

We will commence budding Plum on Marianna, August 15th, and would like to figure with you for any number Plum one year Fall 1907.

THE FRASER NURSERY,

HUNTSVILLE, ALABAMA.

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

TWO year old Apple and Grape, and one year Peach from the bud, and one year old Cherry, for wholesale.

Write for Prices.

EAST TENNESSEE NURSERY COMPANY,

R. F. D. No. 2. CLINTON, TENN.

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

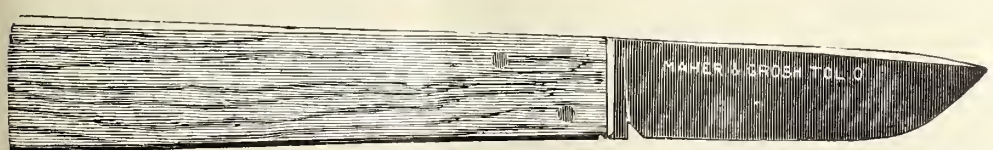
The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

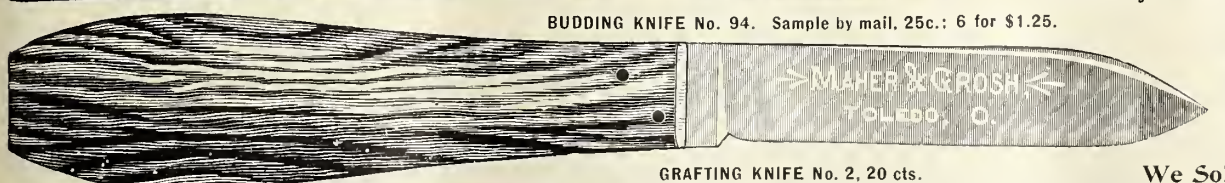
1,000,000 JUNE BUDDED PEACH

Elberta, Carman, Salway, Bell of Georgia, Waddell, Hiley, Greensboro. Also General Line of Nursery Stock at wholesale. Write for prices.

SOUTHERN NURSERY CO., WINCHESTER, TENN.



BUDDING KNIFE No. 94. Sample by mail, 25c.: 6 for $1.25.



GRAFTING KNIFE No. 2, 20 cts.

NURSERYMEN'S

KNIVES

Hand Forged Razor Steel Warranted

Nursery Pruner, 50 cts.
Pocket Pruner, 60 cts.
Pocket Budder, 35 cts.
Pocket Grafter, 40 cts.

We Solicit Direct Trade.

Send for 12-Page Special Nursery Catalogue.

MAHER & GROSH CO., 90 A Street, Toledo, O.

WHOLESALE GROWER OF

PEONIES

List of 100 varieties will be sent on request.

J. F. ROSENFIELD, West Point, Nebr.

Order Peony Plants Now

Complete List ready for distribution.

Ship September first. **Stock guaranteed true.**

It means something to carry away a silver cup and nine first prizes out of twelve awarded at the Exhibition of the American Peony Society. That is what we did.

PETERSON NURSERY,

Lincoln and Peterson Aves., CHICAGO, ILL.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes, $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent.

Louisville & Nashville R. R.

LOUISVILLE, KY.

Oakland Nurseries

will make special prices for immediate orders on PEACHES and APPLES in car lots for late fall delivery.

We also have a fine lot of Shrubbery, including Berberry Thumbergii. Don't fail to send us your want list for SPECIAL PRICES.

C. R. BURR, Proprietor,

Manchester, Conn.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,

WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

1-YEAR-OLD 2½ IN. POTS. **ROSES** 2-YEAR-OLD 4 INCH POTS.

Baby, Cr. and Y. Ramblers; Laing, Wood, Diesbach, Dinsmore, Masson, Charta, Caprice, Lambelin; P. & W. LaFrance, B. Brown, Meteor; Notting, Neyron, Gen. Jack., Et. de France, etc. 105 best sorts growing for 1906 1907.

Baby, Cr. and Y. Ramblers; Neyron, Dinsmore, Laing, Diesbach, Charta, Wood, Masson, Plantier, etc. Extra strong own roots.

Leedle Company, EXPERT ROSE GROWERS, Springfield, O.

OAKLAND NURSERIES

COLUMBIA, TENN.

Fruit and Ornamental Trees, Plants, Vines, Shrubs, Roses, Evergreens.

The most complete assortment we have ever grown, at lowest prices. Planters send list of wants before placing your order. Dealers' orders billed to their entire satisfaction. Agents Wanted. Mention National Nurseryman.

W. Y. C. GRANT, Columbia, Tenn.

CHERRY TREES

We offer both one and two year old Cherry trees for the coming fall and spring. Nurserymen who have never seen our one year trees cannot appreciate their quality and worth. Can also furnish some Plum and Peach and other stock. Let us figure on your wants.

KNOX NURSERIES,

H. M. Simpson & Son, Vincennes, Indiana

Good Opportunity

Energetic young man, with thorough ornamental nursery training including hardy herbaceous plants, may find it to his advantage to correspond with us. Permanent position to right party. State experience, references and salary expected. Position now open.

THE ELM CITY NURSERY CO.

NEW HAVEN, CONN.

JUNE BUDDED PEACH

ELBERTA, CARMAN, GREENSBORO

and all leading varieties guaranteed true to name

General Line Nursery Stock at Wholesale Prices

BEST OF REFERENCES FURNISHED.

WINCHESTER NURSERY AND ORCHARD CO., Winchester, Tenn.

Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1906,

For nursery stocks, of their own growing, grading and packing
For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 HUDSON ST., NEW YORK CITY.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.
Nurseries: Henrico and Hanover Counties.

OFFER FOR FALL 1906 AND SPRING 1907

Peach Trees—Budded on Natural Peach Seedlings.
Std. Pears—Nice assortment, Keiffer especially.
CALIFORNIA PRIVET—Fine Plants.
And General Line of Nursery Stock.

We have on hand about 200 Bushels Natural Peach Pits, crop 1905, and expect in due season our usual supply of this year's crop. We have been handling these seeds for years with universal satisfaction.

Correspondence solicited.

HEALTHY TREES
At BARGAIN PRICES

APPLE	PEACH
CHERRY	PEAR
PLUM	QUINCE

We also have at all times an especially fine line of ORNAMENTAL TREES, SHRUBS and EVERGREENS. Will also have in quantity the following Forest Seedlings: BLACK LOCUST, CATALPA, SPECIOSA and OSAGE ORANGE

Tell us what you want to buy and we'll make our prices interesting

The Geo. Peters Nursery Co.
TROY, OHIO.

When writing to Advertisers mention The National Nurseryman.

L. Green & Son Co.

Western Reserve Nurseries,

PERRY, LAKE CO., OHIO.

Offer for fall 1906 and spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

Apple, Cherry, Peach, Plum and Kieffer Pear Trees

APPLE SEEDLING

Clean and healthy. Well graded. None better.

Osage, Russian Mulberry and **Soft Maple Seedling.**

Bechtel's Double Flowering Crab, all sizes, including small trees for planting in nursery.

Shade Trees

Elm, Soft Maple, Box Elder, Weir's C. L. Maple.
GRAPE VINES, FLOWERING SHRUBS.
APPLE GRAFTS. All styles made to order.

PETERS & SKINNER
CAPITAL NURSERIES
NORTH TOPEKA, KANS.

When writing to Advertisers mention The National Nurseryman.

LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
60 CORTLANDT ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

NORTH CAROLINA
NATURAL PEACH PITS

Now ready for delivery. These seeds are in great demand and you should ORDER AT ONCE.

ADDRESS

JOHN A. YOUNG, *Greensboro, N. C.*

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

The Willadean Nurseries

OFFER FOR SPRING, 1906

One of the most complete lines of

Fruit, Shade and Ornamental Trees, Roses, Shrubs and Perennials

to be found South of the Ohio River.

Seedlings we have in large quantities, including Oaks, Gums, Chestnuts, Cypress, Tulips, Magnolias, Elms, Mulberries, Black Locust and Catalpa Speciosa.

WE ARE HEADQUARTERS FOR CATALPA SPECIOSA, AND BLACK LOCUST SEEDLINGS,

having grown in 1905 over Sixteen Million Seedlings of Locust and Catalpa alone by actual count.

Send us your list of wants to price.

Spring trade-list will be ready in February; send for it.

THE DONALDSON CO., Warsaw, Kentucky.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of
FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest, Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

ANNOUNCEMENT

Having purchased the interest of H. P. Dean in the Greenwood (Ind.) Nurseries, I now have full control of same and am pleased to inform our many patrons that I will be better prepared the coming fall, than ever before to furnish a full line of Nursery Stock, guaranteed true to name, and assure all courteous and liberal treatment.

Respectfully,

S. BILLINGSLY,
Greenwood, Ind.

COMMERCIAL NURSERY CO.

WINCHESTER, TENN.

offers to the trade 50 thousand fine 2-year Apple; 40 thousand year old Peach, June buds, Cherry, Grapes, Raspberries, Seedlings Pecans from fine nuts. Clean stock; it will pay you to get our prices or come and see us.

Commercial Nursery Co., Winchester, Tenn.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.
Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

J. HORACE McFARLAND COMPANY, MOUNT PLEASANT PRESS, HARRISBURG, PA.

A Great Season Ahead

NO one who has had his eyes open during the eight months of nineteen hundred and six can have properly any other idea than that the nursery business is prosperous, and in an increasing proportion. Where good stock, intelligently selected for the trade at hand, has been well-grown and properly offered, it has sold at good prices. More people are turning toward country and suburban homes than ever, and they can't develop these homes without the aid of the nurseryman and seedsman. They want to plant trees, vines and shrubs; they want to start rose gardens; they will have the best fruits. They have the money to pay, too; and the best of them are willing to pay the best prices for the best stock.

This condition ought to make any progressive nurseryman sit up and think—that is, if he really wants a share of this best trade, at the best prices. These buyers won't come at the nurseryman with a club and demand the stock! Not a bit of it! They must be sought smoothly, truthfully, and with fair words. They have large waste-baskets, most of them, in their offices, and in their homes, and the penny-saving offers of the cheap man keep these baskets full!

The wise nurseryman seeks the silk-hat, dress-suit trade in a like garb. If he has a traveler who calls upon the gentry with private grounds to plant, he is a gentleman in appearance and in conversation, and he does not make his appeal with tomato-can colored plates.

If the wise nurseryman sends out to represent him a paper traveler, by Uncle Sam's transportation scheme—his catalogue, we mean—he has that catalogue so attractive, so dignified, so convincingly truthful, so beautifully illustrated, that it stays on the desk and not under it, and the

sort of men who read Suburban Life, Country Life, and House and Garden, are won into steady buyers.

In these Tiffany days, the best catalogue-showing a man can make for his business is pure economy. He is offered, with much clamor, a catalogue which only claims to be "as good as those McFarland prints"; but he considers that paste imitations seldom deceive anyone who wants real diamonds, and he passes!

If these cheaper catalogues—cheaper because less carefully done, less thoughtfully considered—do seem to save a cent or two each, is it a real saving? An eight-cent catalogue in the waste-basket is hardly as valuable to the nurseryman as a ten-cent catalogue in the customer's hand, is it?

We make catalogues to bore right into the customer's order book, if we are so commissioned.

That is, we make all we can of them. This little sermon has its text at the end, and this is it: If you want McFarland order-getting catalogues before March 1, 1907, get after them during September, 1906. We are busy now, and getting busier, and by October 1, 1906, we shall have to set the door mighty near shut for new customers.

J. HORACE McFARLAND COMPANY
Mount Pleasant Press
HARRISBURG, PENNSYLVANIA

We make and illustrate catalogues. We have the largest collection of pictures in the world. We do not make plate-books or wooden labels.

Roses! Roses!

Hybrid Perpetuals
Moss Collections
Crimson Ramblers
Baby Ramblers

A fine stock of the above, get my prices

GILBERT COSTICH,
ROCHESTER, NEW YORK.

A block of one year sour cherries. Photographed July 26, 1906. H. M. Simpson & Sons. Vincennes, Ind.

General view of the Simpson & Sons apple orchard at Vincennes, Ind., in which the trees have been double worked on vigorous stocks by top-budding in the orchard. Cow peas grown for cover-crop.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., SEPTEMBER, 1906. No. 9.

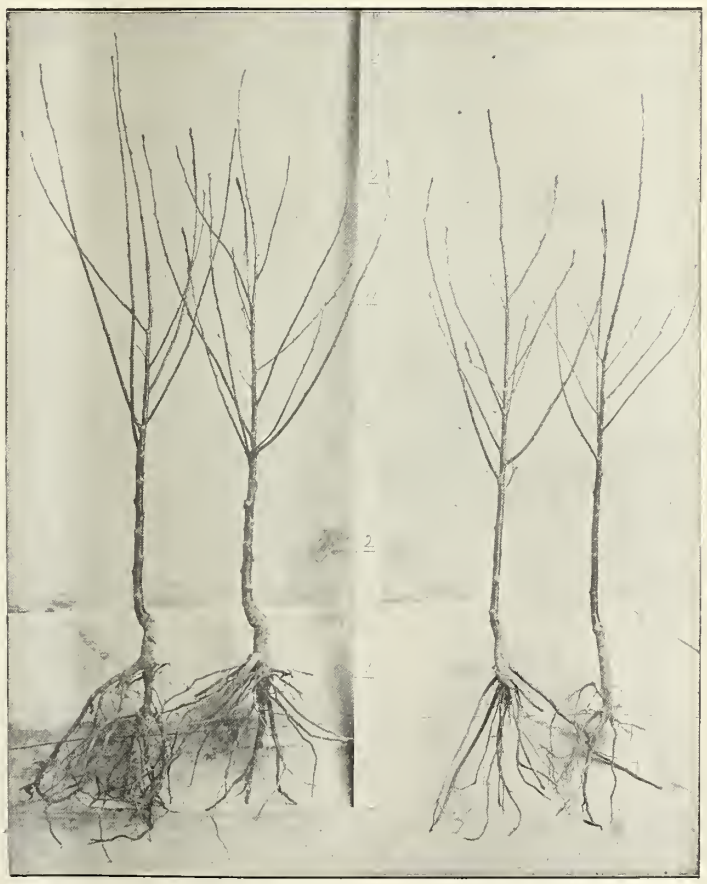
A CHERRY GROWING ESTABLISHMENT.

THE KNOX NURSERIES, NEAR OLD VINCENNES, IND.
H. M. SIMPSON & SONS, PROPRIETORS.

SPECIALISTS IN PROPAGATING CHERRY TREES—EXPERT ORCHARDISTS.

[Written and Illustrated by the Special Correspondent of the National Nurseryman.]

"Find your specialty and stick to it," is a somewhat new-fashioned maxim. Though it is not hoary with age, nor time-worn by usage, it works very well in this practical twentieth century work-a-day world, and the men who stick to it consistently are the men whose efforts are rewarded by success, great or moderate. Fortunate it is for the nurseryman that tree-growing can never be reduced to a mathematical certainty. Always there must enter the factor of the individuality of the grower, the judgment of the proprietor, and the intelligence of the plant manipulator. Success comes in proportion as intelligence, assiduity and environment are favorably employed. In the nursery business, as in most other callings, the man or firm turning out the best stock, handled in the most approved manner, and sold at reasonable prices, is bound to win in the long run. When one comes to think of it, what is five cents on the price of a tree, where a planter has invested five or six thousand dollars in an orchard proposition? The initial price of the trees is a small affair when compared with the growth the tree may make the first few years of its existence. An orchard may advance in value anywhere from nothing to twenty-five per cent. per annum, and this early increase in value is as largely influenced by the quality of the trees set out as it is by the subsequent care bestowed upon them. Neglect will dwarf a good tree, but the best of care will make but little out of a starveling or a runt. What is true of animals in this respect is also, in large degree, true of plants.

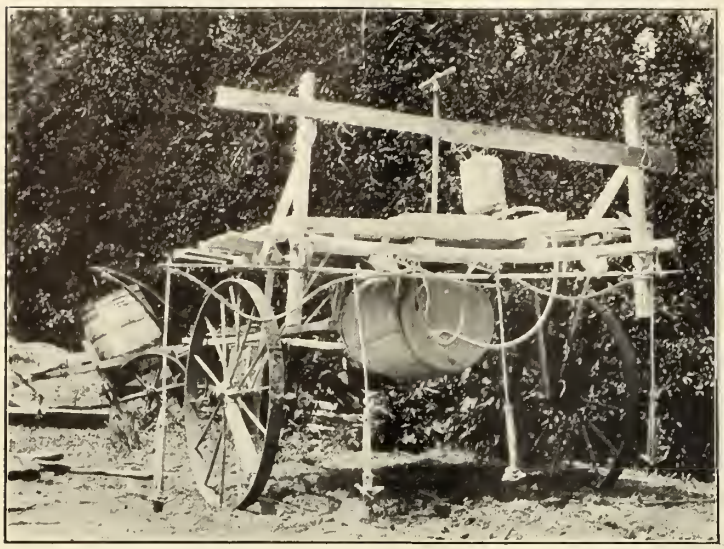


Representative samples of one and two year old cherry trees, grown by the Knox nurseries, Vincennes, Ind.

This, then, is our first principle: It pays to buy good trees. We will now proceed to tell our readers where we have recently seen a fine lot of cherry trees growing, as a specialty to a general line of other nursery fruit stock.

THE KNOX NURSERIES OF OLD VINCENNES.

No matter who the wide-awake traveler is who visits the city of Vincennes, his interest, at first, will be divided between the particular business in hand and the historic and traditional associations of the place. He will visit the museum and promise to refresh his memory with the stirring incidents recounted in "Alice of Old Vincennes," and half forget his business unless closely pursued by "enemy" (time), as your correspondent was on the occasion of his recent visit.



A home made but efficient nursery sprayer, a necessity in dealing with cherry stocks.

The Knox Nursery passed the half century mark of its existence about five years ago. It was founded by Archibald Simpson, the father of the senior member of the present firm, in 1851. The beginning was modest. A plant of 1,000 apple grafts launched the enterprise.

PERSONNEL OF THE FIRM.

While the name of the firm has changed several times since its foundation, it has never gone out of the hands of the Simpsons. The present partnership consists of three persons: H. M. Simpson, general superintendent, Harry D. Simpson, in charge of the office, and Robert A. Simpson, in charge of field work. These three, the latter two, sons of H. M. Simpson, have grown up in the nursery work, and have added to their practical training, courses in State agricultural colleges. A third son, Ray C. Simpson, who recently graduated from the Horticultural Course of Cornell University, is also associated with the firm, in developing a pecan nursery and orchard at Monticello, Fla. These men are, therefore, studying the business from all sides. They study principles as well as practices and methods.

SOIL AND TOPOGRAPHY.

The native hardwoods of the region at once stamp this as fruit land. The soil is a warm loam land, underlaid with a pervious clay which develops a fine root system. In this soil and on these rolling elevations the cherry is particularly at home. Along the waterways and small streams the surface is broken and picturesque, but here are the fine fruit lands now being developed by the Simpsons and others.

How the large acreage of young stock is cultivated.

THE DEVELOPMENT OF A SPECIALTY.

For a considerable number of years this firm grew a general line of nursery stock. But personal interest in the cherry and the specially favorable environment, as proved by the trees grown, gradually focussed attention on this fruit, and for the last eight years the cherry has been a strong leader; and the stock now produced is justly famed the country over. The past six years the attention of the firm has been specially directed to the production of high grade, one-year-old trees, in which effort they have been eminently successful. Large blocks of thrifty one and two-year-olds proved the skill of the propagator and the suitability of the soil. Although our photographs were taken in July, when the trees were only partly grown and then making wood rapidly, many of these one-year-olds would caliper three quarters, and even four to five feet in height. At digging time, fully sixty per cent. of these will grade three-quarters and up. We were particularly struck by the luxuriance of the foliage of these trees. It was not at all uncommon to find

A top budded apple tree in the Simpson orchard showing frame work of top.

Robert A. Simpson.

leaves of sour cherries, seven inches in length by four in width. This strength and vigor were secured by a careful selection of strong Mahaleb stocks, the use of well-prepared soil, good cultivation, careful budding and persistent use of the spray pump. We were informed that the two-year stock was practically sold out and that heavy inroads had already been made upon a fine block of one hundred thousand one-year-olds ready for market this fall. The plant of practically all Mahaleb stocks, for this year's budding amounted to 300,000, and are now in thrifty condition. The firm banks upon the quality of their stock.

ORCHARDING ENTERPRISES.

For some years the firm has been interested in double-working apple trees, and has now a large order for own-rooted Spy stock, top budded, for the chief of the Department of Horticulture of the University of Illinois. One of the very best apple orchards in the State of Illinois is also owned and operated by the Simpsons. It consists of one hundred and seventy-five acres of apples, fourteen years old and is said, by those who should know, to be as good as can be found in that State. They installed the first elevated mixing system for spraying, which was described by the University of Illinois in a bulletin fully illustrated. They also have two gasoline spraying outfits which are used at the proper time, and for the last six years have always had apples. They have a large packing shed in the orchard, and make their own barrels on the place. Their crop of fruit this year will be about 7,000 barrels, and they are expecting top prices, because the apples are uniform and perfect. The Ben Davis predominates in this orchard.

They also have an apple orchard of ninety acres five miles east of Vincennes. This orchard has a great number of trees on Northern Spy stock on their own roots, and all are top-budded from trees of good and regular bearing habit. This orchard is making a fine growth, and gives great promise of proving an unqualified success.

Only recently this firm became convinced that pecan growing in Florida would be profitable, and accordingly acquired 250 acres of land near Monticello, Florida. On this they will plant pecan trees for fruit, and will also grow the young trees for the wholesale trade. They will have a large number of grafted pecans to offer for fall, 1907. Anyone wishing grafted or budded pecans in the paper-shelled sorts will do well to correspond with this firm. Ray C., the youngest son of Henry M., will take charge of the Monticello branch.

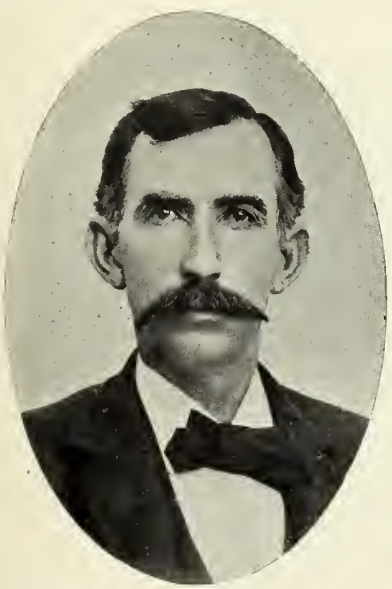
VARIETIES OF CHERRIES GROWN.

The main supply consists of Early Richmond and Montmorency, supplemented by English Morello, Baldwin, Black Tartarian, Gov. Wood, Windsor and other sweet kinds.

SHIPPING FACILITIES.

Four railroads give unsurpassed shipping facilities and excellent service.

This, then, is the plain story, briefly told, of the success of a firm having business ideals, to which they have consistently adhered.



H. M. Simpson.

A FAMILY COMMUNITY.

The homestead arrangement of the members of this firm is well-nigh ideal. The home of Mr. H. M. Simpson occupies a handsome sweep of lawn, and is immediately adjacent to the homes of Harry D. and Robert A., who share the lawn in common. This arrangement permits of a pleasant informal treatment in the planting of the grounds that would otherwise be quite difficult, if not impossible. On the grounds are to be seen some finely developed specimens of the rarer deciduous and coniferous ornamentals, all of which lend dignity and culture to the homelike surroundings.

EDITOR OF THE NATIONAL NURSERYMAN:

We have had a very fine season, taking all in all. Had it exceedingly dry following planting time, but beginning with June we have had plenty of rain and the growth has been good. Our 2 yr. Cherry are very fine but we have not nearly enough of them. Our 1 yr. Cherry are magnificent and will please the most exacting. Our 2 yr. and 1 yr. Cherry still retain nearly every leaf which shows their thriftiness and vigor.

Yours truly,
H. M. SIMPSON & SONS.

Harry D. Simpson.

W. Y. C. GRANT, COLUMBIA, TENN.

wishes to call special attention to his advertisement in this issue of National Nurseryman.

Fruit and Plant Notes.

A NEW ALTHAEA.

With the development of the aesthetic side of horticulture comes an ever-increasing demand for plants which have new characteristics, whereby variety in texture and color of the design may be secured. Remarkable additions have been made to the lists of our ornamentals in recent years, and it might seem as though all useful combinations had been tried. But the possible variations of nature are well-nigh infinite, and each year gifts of flowers, or fruits, or shrubs come to us which in certain respects excel the old.

In this issue we have pleasure in calling special attention to the new variegated hardy Hibiscus (althaea) being

Full grown specimen of Hibiscus Syricus Meehanii New Variegated Althea.

jointly introduced by the well known firms of Thomas Meehan & Son, Inc., Dreshertown, Pa., and P. J. Berckman's Company, Augusta, Ga.

One of the principal features possessed by this althaea lies in the fact that the flowers, unlike the old, open fully and do not wither in the bud—a defect generally noted in the old-fashioned form. Its beautifully variegated foliage is also another strong point in favor of the newcomer.

The following is a description of this late acquisition now upon the market:

DESCRIPTION OF HIBISCUS SYRIACUS MEEHANII (NEW).

This most remarkable Althaea is unquestionably the best of the variegated-leaved class.

Habit.—Robust, compact and somewhat dwarf-growing. Leaves, beautifully variegated with creamy-white, with irregular margins and irregular green centers. The light colored parts never sunscald or revert to the original green.

Flowers.—Single, three and a half to four inches in diameter, of a satiny-lavender sheen, and purple-blotched at the base of each of the five petals; produced in the greatest profusion from June 1st until autumn.

It is a remarkably striking plant. Nothing finer can be found in its blooming period, or even previous to the time the flowers make their appearance, as it is most excellent for massing, or as single specimens.

Hardiness.—It has proven hardy as far north as the other varieties of Althaeas thrive. Plants now twenty-five years old in Augusta have reached a height of eight feet, and have always been free from insects or diseases. It has also proved perfectly hardy at Germantown, Pa.

As compared with the old variegated leaved variety, known as Althaea Buistii (Hibiscus Syriacus Buistii) or H. Variegata, whose double, dark wine-colored flowers never open and remain unsightly, the Meehanii is immensely superior.

History.—This variety was received by P. J. Berckmans & Company about twenty-five years ago with an invoice of other deciduous shrubs, and merely labeled "Variegata." But it proved to be entirely distinct from what was known under that name, and its merits soon became so transcendant that, after submitting leaves and flowers for identification to the late Thomas Meehan, who was unable to trace its origin, it was dedicated to him by the P. J. Berckmans Co., Inc., Augusta, Ga.

We predict a wide range of usefulness for this improvement upon our old garden ornamental.

VARIETIES OF PLUMS FOR OHIO.

Professor Green, of the Ohio Experiment Station, Wooster, describes the following varieties of plums, and recommends them for planting in Ohio:

Clyman (Stark).—Fruit medium in size; oval, slightly compressed at ends; cavity, small; stem short and stout; suture slight, but distinct; color, dark purple over greenish yellow ground; dots obscure; heavy blue bloom. Flesh, very light greenish yellow; pit, medium size, free; quality good. Tree, moderate, upright, open grower.

First blossoms, May 6th; full bloom, May 9th; last blossoms, May 13th. In full fruitage August 5th.

Fruit resembles the Lombard on the trees, though slightly smaller. An excellent plum, and the first of the Europeans to ripen.

Czar (Storrs & Harrison).—Above medium size; oblong; cavity narrow; stem short; suture indistinct. color, dark purple; bloom, blue. Flesh, light yellow; pit free; quality good. Tree only a moderate grower, seeming to lack vigor.

First blossoms, May 6th; full bloom, May 9th; last blossoms, May 13th. In full fruitage August 10th. Slightly larger and of better quality than Clyman. Not much inclined to rot. Reported as not reliably hardy in northern sections.

Poole Pride (Kerr).—Fruit medium size; oval, slightly compressed at stem; cavity small; stem slender; suture a distinct line; color, yellow ground overspread with light crimson; dots numerous, minute, white; bloom very thin, lilac. Flesh, yellow, moderately firm, juicy; pit, medium, cling; quality good. Tree a free upright, spreading grower and prolific.

First blossoms May 9th; full bloom May 14th; last blossoms May 18th. In full fruitage August 1st. A beautiful and good, early plum.

Downing (Graham).—Fruit large; round oval, somewhat irregular, one side usually slightly enlarged; cavity medium; stem slender, one inch long; suture a distinct line; color, rich crimson; dots many, small, but quite prominent, light; bloom, light blue, thin; skin thin, with no astringency. Tree a low, spreading grower; foliage rich, glossy, dark green.

First blossoms, May 9th; full bloom, May 13th; last blossoms May 15th. In full fruitage September 5th.

A very valuable variety—probably one of the finest of the Wild Goose class.

October Purple (Stephen Hoyt's Sons).—Fruit very large—from one and three-fourths to two inches in diameter, and same in length; roundish, or sometimes oblate, compressed at the stem; cavity large and deep; stem rather slender; suture marked, but not depressed; color, greenish yellow ground overspread with the purplish red, striped and splashed; dots numerous, minute, light; thin, white bloom. Flesh yellow, rather firm, juicy; pit small, cling; quality not high, but pleasing and refreshing. Tree a strong grower, with spreading, upright branches.

First blossoms, May 3d; full bloom, May 6th; last blossoms, May 12th. In full fruitage September 25th, but plums remained upon the tree in excellent condition until October, surviving two hard frosts. One of the best of the Japanese varieties for dessert use, and of peculiar value, because of the extreme lateness of its season. A beautiful plum, but like others of its class, cannot be depended upon for regular crops.

Apple (Kerr).—Very large; roundish, oblate, often with pointed apex; stem short and stout; cavity medium, deep; suture distinct, depressed; color very dark, purplish red, firm, fine-grained, melting and juicy; pit, medium, cling; quality excellent, mild, pleasant, one of the best of all classes of plums for dessert use. Tree a strong, spreading grower.

First blossoms, May 4th; full bloom, May 6th; last blossoms, May 19th. In full fruitage, August 15th. Valuable.

Why spend another winter in the cold North? You can spend your winters at Waughtel, Georgia, the new colony town of Folks from the North. Send for information at once.

COLONY CO., FOLKSTON, GA.

A flowering branch of Meehan's Variegated Althea. See page 252.

Quiz Column.

AN EARLY PEACH.

THE NATIONAL NURSERYMAN,
Rochester, N. Y.

Dear Sir—We found a peach here this season, ripe about July 25; color, red; flesh red; perfect free stone; fair flavor; about size of Triumph. Ripens here with Alexander, but more evenly.

Do you know of such a peach?

Our shippers believe it would be profitable to raise. What do you think? You may call for opinions in your next issue if you please.

Provo, Utah. B. H. BOWER.

Wheelock & Clark have a complete line of grape vines and currants. Special attention is paid in grading all stock to the highest standard for nurserymen in the retail trade. See our advertisement in this issue.

The Pacific Coast Association of Nurserymen propose to hold a mid-winter California meeting this year at same place the Fruit Growers convene. Meetings are to be arranged so there will be no confliction, and it is planned to have a "rousing" good gathering of nurserymen and fruit growers.

CHAS. W. HOWARD, Sec'y.

The National Nurseryman

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THE NATIONAL NURSERYMAN PUBLISHING CO., Inc.

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PRESIDENT, ... THOMAS B. MEEHAN
VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

The only trade journal issued for Growers and Dealers in Nursery Stock of all kinds. It circulates throughout the United States and Canada.

Official Journal of American Association of Nurserymen.

AWARDED THE GRAND PRIZE AT PARIS EXPOSITION, 1900.

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., SEPTEMBER, 1906.

AMERICAN ASSOCIATION OF NURSERYMEN.

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Inspection—R. C. Berckmans, Peter Youngers, Prof. John Craig.
Program—Judge Eugene Stark, Louisiana, Mo.; Chas. J. Brown, Rochester, N. Y.; Herbert Chase, Huntsville, Ala.
Publicity—J. M. Irvine, St. Joseph, Mo.; John C. Chase, Derby, N. H.; H. D. Simpson, Vincennes, Ind.
Exhibits—Thos Meehan, Dreshertown, Pa; H. P. Kelsey, Salem, Mass.; E. P. Bernardin, Parsons, Kans.; J. Woodward Manning, Reading, Pa.; Henry Chase, Huntsville, Ala.
Horticulture—Chas. J. Maloy, Rochester, N. Y.; Chas. T. Smith, Concord, Ga.
Arrangements - Chas. A. Ilgenfritz, Monroe, Mich.; Chas. Greening, Monroe, Mich.; Geo. S Josselyn, Fredonia, N. Y.; Nelson Bogue, Batavia, N. Y.; John Morey, Dansville, N. Y.
Editing Report—J. Horace McFarland, Harrisburg, Pa.; O. G. Chase, Geneva, N. Y.; Geo. C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y., Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

WESTERN ASSOCIATION OF WHOLESALE NURSERYMEN—President, Peter Youngers, Geneva, Nebraska; vice-president, A. Willis, Ottawa, Kansas; secretary, E. J. Holman, Leavenworth, Kansas.

SOUTHERN NURSERYMEN' ASSSOCIATION—President, John A. Young, Greensboro, N. C.; vice-president, C. N. Griffing, Jacksonville, Fla; secretary-treasurer, Chas. T. Smith, Concord, Ga. The next meeting will be held in Richmond, Va. August, 1907.

SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, S. A. Miller, Milton, Ore.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

IMPORTANT CONVENTIONS.

The month of August saw a number of important conventions. The Florists and Ornamental Horticulturists held a successful meeting in Dayton, Ohio, the National Apple Shippers assembled in Niagara Falls and the Apple Growers' Congress gathered in St. Louis on August 14th. Reports of other meetings appear in this issue. It has been proposed to hold a convocation of societies at Jamestown next year. This plan presents many advantages, and is now under consideration.

STATE LAWS GOVERNING SHIPPING OF NURSERY STOCK.

We are glad to take advantage of the labors of the Georgia State Board of Entomology, and present to our readers a summary of the laws governing the interstate shipment of nursery stock in this issue. A tabular statement of the same matter will be found in the March issue of this journal. Our object in presenting the regulations at this time is not only to assist the nurseryman in making his fall shipments, but also to draw attention to the amazing diversity of method exhibited in different States, and by this means emphasize the desirability of greater uniformity as recommended by the American Association of Nurserymen at its last meeting.

INFLUENCE OF SAN JOSE SCALE ON FRUIT TREE PLANTING.

The inquiry propounded by the Messrs. Greening in another column is quite timely. But it has more force when applied to method than to the general proposition of whether the enemy, San José scale, is controllable. This has been demonstrated over and over again. The scale will continue to flourish where carelessness and laxity prevail. The up-to-date fruit grower need only realize that it will cost him more than formerly to raise fruit, but that there is no such thing as failure if any of the standard remedies are persistently and carefully applied.

Lime and sulphur continues to be the standard remedy. Its value as a fungicide more than offsets its increased cost. Fall, as well as early spring spraying is now employed in the East, and two applications are sufficient to hold the enemy in check, though it may not effect complete eradication.

NATIONAL APPLE SHIPPERS CONSIDER INSPECTION.

The National Apple Shippers gave tacit assent to the principle of governmental inspection of apples at their last meeting, when they appointed a committee to co-operate with a similar committee of the American Pomological Society for the purpose of formulating standards which shall accurately define the different grades and which shall be adapted to the leading apple-producing sections of the country.

The Association, however, went much further, and appointed a committee to take up the question of optional inspection of fruit with the Federal government, with a view of testing its feasibility. We are of the opinion that this is a step in the right direction. But before any stat-

ute can be enacted we must have clearly defined standards. It is gratifying that these two phases of this important subject are now in the hands of competent committees.

DWARF APPLES.

There is an increasing interest in the culture of dwarf trees. The fact that in a few districts in New York the San José scale has infested the large old apple orchards so thoroughly, and the size of these trees is so great as to prevent satisfactory spraying emphasizes the desirability of using stock which will produce trees that can be reached with the spray pump. Whether scale on these large apple trees is absolutely uncontrollable is, of course, not a definitely settled question; but enough is known to convince us that the difficulties of controlling San José scale in such orchards are very great and the expense large.

RHODODENDRONS AND LIME.

It has long been known that rhododendrons do not thrive in a soil in which lime is present in excessive or even prominent quantities. Where such conditions exist, in order to establish the plants and keep them growing, a large excavation must be made, which is filled in with soil of a non-alkaline character.

Whether the alkalinity of a soil can be neutralized is a question which has been recently investigated by the horticultural department of Cornell University. Experiments carried on by Mr. J. C. Hogenson of the graduate department, indicate that small quantities of sulphate of magnesia added to lime soils will successfully counteract the injurious effects of the presence of the lime. That this is feasible in the growing of plants in pots, was clearly demonstrated by the killing of plants which were set in soil having definite quantities of lime, while other plants with the same quantities of lime in the soil were saved, and grew normally by treating this soil with sulphate of magnesia. The experiments indicate that this might be applied successfully to outdoor conditions. Other experiments in the same line will be conducted in the near future.

REFRIGERATION IN THE TRANSPORTATION OF BANANAS.

The banana is becoming increasingly a poor man's diet. It is invading all parts of the country. The increase in consumption is enormous. A single company handled, for the twelve months preceding September 30, 1905, 35,000 carloads of bananas. The carrying of the fruit in the hold of steamers, in cold storage, has been successfully worked out, but one of the difficulties which has met shippers, is the despatching it from the receiving port in the South to the great markets of the East. Although special trains from New Orleans, or San Francisco, or Vancouver, cross the country at express speed, eight or ten days are consumed in making the trip. During this time the cars pass through the heated regions of the South and West, and the fruit ripens all too quickly. Recently, a cooling device, whereby an entire trainload of bananas could be cooled before starting on its transcontinental trip, has been put into operation. A shed 400 feet long and 66 feet wide, containing four railway tracks, each track accommodating ten railway cars, was built. The shed is built on the insulated plan of a cold storage building, so that the cold is economized. The cars are run into this shed, and the cool air passed, by means of canvas chutes, directly into the car. In this manner the air percolates the banana mass, and by means of a circulation system the hot and impure air is taken back to the cooler through another canvas chute, which leads out from the end of the car to the main suction duct. By use of these sheds it is found possible to reduce cars having a temperature of 72 to 76 degrees to a temperature of 60 degrees in twelve hours. When cooled down to this, and by using thoroughly insulated cars, the temperature will remain nearly constant for two or three days. This looks like a very important advance in the mechanics of refrigeration, as applied to the transportation problem.

TREES INJURED BY TRENCHING OVER WINTER.

Planters are often urged to buy in the fall and trench their trees in over winter. In general this is good advice, especially in the colder regions, where fall planting is not practicable. Occasionally, however, injury may arise under trenched conditions. Recently, samples of pear trees were sent to us which were purchased from a responsible nurseryman, in the fall of 1905, were trenched in ground over winter, planted this spring, with the result that only about forty per cent. of them grew. To all appearances these trees were in first-rate condition when they were received in the fall. They were not fumigated and were well grown. The only reasonable presumption is that they were placed in a warm position exposed to the incident rays of the sun, and lying close to the ground they were subjected, as was peculiarly the case last winter, to frequent thawing and freezing. This had the effect of bringing about a result quite similar in general appearance to the condition induced by ordinary pear blight. When trees are heeled in over winter, it is important that they should be placed on a northern exposure and quite completely covered, in order to insulate them, as it were, and lessen the injurious effects of fluctuating temperatures. In the cold regions it is desirable to cover them completely, although this should not be done until after winter weather has arrived.

FOREIGN CONNECTIONS OF MESSRS. JACKSON & PERKINS CO.

EDITOR NATIONAL NURSERYMAN:

Sir:—You may be interested in knowing that we have accepted the exclusive American agency for the Wm. Fell & Co., Ltd., Hexham, England, and all orders to that firm for Gooseberries, Currants, English Manetti, etc., should be sent through us.

Similar arrangements have also been lately made with Mr. Giuseppe Sada, Milan, Italy; Mr. Sada is already favorably known to the trade in America, and his fruit-tree and other seeds reach this country in considerable quantities. As his sole agents, we expect to extend this trade.

We have represented, for a number of years, Mr. Charles Detriche, Sr., Angers, France, whose advertisement you carry. Why don't you send a copy of your paper and advertising rates to Messrs. Fell & Sada; we will, if you wish, mention the good results we have obtained for ourselves and Mr. Detriche from advertising with you.

Yours truly,

Newark, N. Y. JACKSON & PERKINS CO

A few of the members of the Southern Association on leaving Lookout Inn.

SOUTHERN NURSERYMEN'S SUCCESSFUL MEETING.

The meeting of the Southern Nurserymen's Association that was held at Lookout Mountain, Tenn., on the 15th and 16th of August, was the largest attended meeting and there were more points of interest from a business stand point taken up than at any time during the history of the Association. The free seed distribution was vigorously condemned by resolutions.

A Legislative Committee was appointed by the president, at the request of the members, to act in conjunction with the National Legislative Committee in all matters pertaining to legislative work. The committee named was J. C. Miller, Rome, Ga.; John A. Young, Greensboro, N. C.; Robt. Chase, Huntsville, Ala.; M. Mc. Kinney, Texas; E. W. Kirkpatrick, Sherman, Texas; C. F. Griffing, Jacksonville, Fla.; J. I. Harrison, Cleveland, Tenn.; F. M. Downer, Bowling Green, Ky. These are representative men of the Southern States and will be glad to co-operate with the Legislative Committee of the National Society in every way pertaining to the interest of the nurserymen.

There were present at the meeting Dr. Hedgecock of Botanical Garden, St. Louis, Mo.; Prof. Fletcher of the Agricultural College, Michigan; Prof. Newell of Louisiana, Assistant Entomologist Prof. Dean of Louisiana, Prof. Beatty of Tennessee, Prof. Kinman of Alabama, Prof. Smith of Georgia, Prof. Phillips of Virginia, and Prof. Morgan of Tennessee.

These nine professional men, with about one hundred of the most practical nurserymen south of the Mason and Dixon line, left but few questions unanswered as to how to grow, handle, sell, inspect grade, with proper certificate, with less red tape with certificates, and how to get money for their trees. Many of these men have attended nurserymen's meetings for years, but few of them ever have been present when there has been so many questions asked and answered by practical growers and handlers of nursery stock.

It was urgently requested by the chairman that every member of the Southern Nurserymen's Association must do his full duty in trying to make the National Association meeting, to be held at Detroit, Mich., next year a success. Many of the prominent members responded, and J. C. Hale, one of the prominent southern nurserymen, agreed to solicit nurserymen of the South to become members of this association. Mr. Hale is president of the Tennessee Association and we feel sure he will do great work in getting his friends together to have them become members.

Mr. Herbert Chase took a very active part in this meeting and recommended to the Southern Nurserymen the great advantage of being a member of the National Association. He said it was a good paying investment if you never attended the National Association.

The Badge book, as a retro-reference book, was invaluable. Now that the Southern Nurserymen have singly and collectively agreed to unite their efforts in making the National Association a success, it is hoped that the Eastern Association at its next meeting during the winter months will take similar steps, and the Western Association, who are ably represented, to take steps to bring a strong delegation to Detroit and increase their membership by all working, for one end, there is no question about the bringing about success.

OFFICERS ELECTED.

President—John A. Young, Greensboro, N. C.
Vice-President—C. N. Griffing, Jacksonville, Fla.
Secretary Treasurer—Chas. T. Smith, Concord, Ga.
The next meeting will be held in Richmond, Va., August, 1907.

Among those present were the following:

Orlando Harrison, Berlin, Md.
C. T. Smith, Concord, Ga.
Herbert Chase, Huntsville, Ala.
J. C. Miller, Rome, Ga.
J. Van Lindley, Pomona, N. C.
W. T. Hood, Richmond, Va.
E. C. Peters, Berlin, Md.
W. L. Killian, Newton, N. C.
E. W. Chattin, Winchester, Tenn.
J. C. Hale, Winchester, Tenn.
John A. Young, Greensboro, N. C.
Chas. Work, St. Joseph, Mo.
B. W. Thornton, Fayetteville, Ga.
R. C. Berckmans, Augusta, Ga.
R. S. Walker, Chattanooga, Tenn.
W. D. Hunter, Chattanooga, Tenn.
A. W. Newson, Huntsville, Ala.
A. D. Williams, Yatesville, Ga.
J. M. Miller, Winchester, Tenn.
J. H. Austin, Augusta, Ga.
Wm. Britain, Winchester, Tenn.
E. E. Bolen, Winchester, Tenn.
Scott Farris, Winchester, Tenn.
Bruce Howell, Knoxville, Tenn.
G. H. Miller, Rome, Ga.
R. I. Smith, Atlanta, Ga.
W. A. Easterly, Cleveland, Tenn.
C. M. Griffith, Jacksonville, Fla.
H. A. Morgan, Knoxville, Tenn.

A NURSERYMAN.

John A. Young, Proprietor of the Greensboro Nurseries, N. C.

PRESIDENT SOUTHERN NURSERYMEN'S ASSOCIATION.

The president-elect of this vigorous Association of Nurserymen began the nursery business in '84, in a very small way at Greensboro, N. C. He now has 493 acres devoted to the nursery business and the raising of fine dairy stock. Mr. Young has nearly one hundred head of Jersey cattle. These are kept in order to maintain the nursery farms in the highest state of cultivation, believing that the land can be kept in better condition by a plentiful supply of home made manure than by a too free an application of commercial fertilizers.

The business of the Greensboro Nurseries is done through traveling salesmen, covering the Southern States.

ADDRESS OF ORLANDO HARRISON AT SOUTHERN NURSERYMEN'S MEETING.

Mr. Harrison said in part:

"It is with pleasure we meet here for business. We are here as nurserymen to help improve our methods of growing nursery stock, saving of fertilizer materials, grading packing, shipping, a better credit system, better prices, less replacing of trees, methods of introducing new fruits to educate our customers; to learn how to prevent diseases, how to get a uniform common-sense certificate that passes the world over, and a uniform square deal all around; how to grow the best trees for the least money, and to make more money for ourselves, and above all how to produce the best trees for the fruit grower of this country, because our success depends on the success of the fruit-grower.

"We can aid the fruit grower by closer co-operation and thus help ourselves.

"The Southern States have more nurserymen who are directly interested in commercial orchards than the remainder of the nurserymen of the United States. Why? Because they have by practical experience learned that fruit-growing, with few exceptions, practically handled is a paying business.

"You men of the south have grown rich, you have helped your neighbors by advocating the planting of commercial orchards.

"May every nurseryman here to-day learn something that he can take home, not only for his benefit, but for his neighbor.

"The Southern Nurserymen's Association has for its aim the advancement of the nurseryman and the nursery interests in general. May we continue our united efforts and try to accomplish more in the south particularly in getting better transportation rates and see there is less delay in connecting lines. We want uniform grading and every nurseryman present will be expected to do his part to make this eighth annual meeting a success."

Secretary-Treasurer C. T. Smith of Concord, Ga., made a few remarks concerning tickets for the return trip, etc.

"The Retail Nurserymen's Success or Failure" was discussed by John A. Young, vice-president of the association, of Greensboro, N. C., in which he said that it is important to the retail nurserymen to send out the best varieties which have been tried before sending them out.

"Many buyers," said he, "are often discouraged when the retail nurserymen send them untried varieties which prove to be a failure.

"As to the pest of fruit trees, the small farmer will be most affected, but the pest scale can be kept in check by nurserymen by spraying, but there is danger with the farmer who does not spray as he should. As a result fruit tree planting will drift into the commercial agencies. If we could induce the government to cease sending out worthless seeds and turn its attention to the pest, we would accomplish a great work. It is true that this work is fostered largely by our congressmen who desire to keep themselves before the people."

FRUIT GROWING BETWEEN ST. CATHERINES AND HAMILTON, THE CANADIAN NIAGARA DISTRICT.

"I regard this section as one of the most fertile, productive and interesting from the fruit growers' standpoint that there is in the entire Lake Ontario Region," says a traveller who recently visited this section. Eight or ten years ago the editor knew this section well. It was, therefore, with more than passing interest that he recently spent two or three days among the fruit growers of Winona and Grimsby.

One who has a memory of past conditions is struck with the improvement in cultural methods and practices; clean culture everywhere whether the crop be apples, pears, grapes or small fruits. At the time of the visit the orchards were looking particularly tidy, having just received the final cultivation and rolling which "laid them by" for the autumn, some with a cover crop and some without. This district suffers less from drought than Central New York and New England. Wherever the soil is sandy enough to admit of surface tillage, little injury results from dry periods.

Diversification—The fruit industry is exceedingly diversified. On the same farm will be found apples, pears, plums, grapes, quinces, cherries, peaches and small fruits. The fruit grower whose soil and location admits of a varied fruit growing, is less likely to experience a lean year than his neighbor, the peach or grape specialist. Something is coming in each month from early summer to late autumn. Labor difficulties are thus also ameliorated or entirely avoided.

A Marketing Difficulty—Fruit growers have systematized the growing of fruit. Good tilling, fertilizing, thinning and spraying nearly assure annual crops. At any rate in the average of years fruit comes in abundance. But with the crop comes the period of the fruit growers' uneasiness—not to say helplessness. It is easy for buyers to combine and hold down prices, while with perishable products, like the stone fruits, for example, the producer is obliged to hustle them to market and accept returns in accordance with real or fictitious market condition. Again, each grower finds in his neighbor a sharp competitor. A good market to-day is glutted to-morrow, while another is scantily served. The distributing problem is a serious one in this region, and growers are thinking it over carefully. It is not improbable that some day the entire fruit product of this region will be handled on the coöperation plan by a central agency.

It would seem that Canadian fruit growers might learn something of their California brethren in regard to handling their products.

Observer.

Note—It was the pleasure of the Editor of the National Nurseryman to spend a short time recently with a leading Canadian firm and we shall give our impressions of the business in an early issue.

Ed.

Might just as well try to do business without money as without The National Nurseryman.

F. E. SCHIFFERLI,
Fredonia, N. Y.

H. W. Joiner, representing The L. Green & Son Co., of Perry, Ohio, called on the Nurserymen in Western, N. Y, the last days of August.

Editor National Nurseryman:

I received the July issue but not the August. You know I depend upon the National Nurseryman for information and when I do not receive it I miss it. With best wishes.

Yours truly,
C. R. Burr.

OFFICERS AND COMMITTEES OF THE AMERICAN ASSOCIATION OF NURSERYMEN FOR 1906-1907.

President—Orlando Harrison, Berlin, Maryland.

Vice-President—E. W. Hill, Des Moines, Iowa.

Secretary—Geo. C. Seager, Rochester, N. Y.

Treasurer—C. L. Yates, Rochester, N. Y.

Executive Committee—E. Albertson, Bridgeport, Ind.; J. H. Dayton, Painesville, Ohio; F. H. Stannard, Ottawa, Kansas.

Committee on Transportation—W. C. Reed, Vicennes, Ind.; Jas. McHutchison, New York, N. Y.; J. C. Miller, Rome, Ga.; Howard Davis, Baltimore, Md.; E. S. Welch, Shenandoah, Iowa.

Committee on Tariff—J. C. Hale, Winchester, Tenn.; E. Runyon, Elizabeth, N. J.; Wm. H. Moon, Morrisville, Pa.; J. H. Skinner, Topeka, Kansas; Fred Green, Perry, Ohio.

Committee on Legislation—R. C. Berckmans, Augusta, Ga.; Wm. Pitkin, Rochester, N. Y.; Hon. N. W. Hale, Knoxville, Tenn.; Peter Youngers, Geneva, Neb.; W. T. Hood, Richmond, Va.; Prof. John Craig, Ithaca, N. Y.; J. W. Hill, Des Moines, Iowa.

Special committee of above on uniform inspection—R. C. Berckmans, Peter Youngers, Prof. John Craig.

Committee on Program—Judge Eugene Stark, Louisiana, Mo.; Chas J. Brown, Rochester, N. Y.; Herbert Chase, Huntsville, Ala.

Committee on Publicity—J. M. Irvine, St. Joseph, Mo.; John C. Chase, Derby, N. H.; H. D. Simpson, Vincennes, Ind.

Committee on Exhibits—Thos. Meehan, Dreshertown, Pa.; H. P. Kelsey, Boston, Mass.; E. P. Bernardin, Parsons, Kans.; J. Woodward Manning, Reading, Pa.; Henry Chase, Huntsville, Ala.

National Council on Horticulture—Chas. J. Maloy, Rochester, N. Y.; Chas. T. Smith, Concord, Ga.

Committee on Arrangements—Chas. A. Ilgenfritz, Monroe, Mich.; Chas. Greening, Monroe, Mich.; Geo. S. Josselyn, Fredonia, N. Y.; Nelson Bogue, Batavia, N. Y.; John Morey, Dansville, N. Y.

Committee on Editing Report—J. Horace McFarland, Harrsiburg, Pa.; O. G. Chase, Geneva, N. Y.; Geo. C. Seager, Rochester, N. Y.

REMARKS BY PRESIDENT HARRISON.

The first name on each Committee is the Chairman and has been named by the president, the other names that follow are recommended by the president to assist the Chairman of these various committees to help make the next meeting of the American Association of Nurserymen to be held at Detroit, Mich., one of the greatest business meetings ever held in the history of this Society. Each committee has a special work and will take up their respective duties and push the work to the front.

The selection of the committees has been made with great care and I believe we have a representative list that will work for the best interests of the Society as a whole, regardless of locality or firm.

The Chairman of the Committee on Transportation is experienced in the work and will with his new force no doubt take up the work with even more energy than ever. The Chairman of the Committee on Tariff is an untiring worker and will see that nothing escapes.

The Chairman of the Committee on Legislation is a man who has had years of experience in Committee work, probably no man in the entire Society has been before the officials at Washington more often and but few have accomplished as much. He has lead the fight for the peach growers of Georgia in securing better car service for the transportation of their fruit and has been successful along this line, his assistants are each men of known ability and when this committee is called on to visit Washington we shall expect to see something doing.

The Chairman of the Committee on Program is a man who is taking his first pull in arrangements of the program for this Society. He has already done much work toward arranging for the program up to the present date. Every member and every prospective member of the American Association of Nurserymen are cordially invited to write Judge Stark giving him their views as to what they might think would be profitable to make the meeting of interest to each other. His assistants have both been tested year after year and have proved beyond question to be men worthy of the appointment on getting up a program.

Chairman of the Committee on Publicity is of brand-new Western stock, has been made famous as "Uncle Jonathan" and now we hope to have him make known the world over "What advantage can be accomplished by being a member of the American Association of Nurserymen." His associates have been labeled for years without a change, and without a quiver, have always aided in assisting the Society. Mr. Simpson, one of the younger bloods of the middle state, will help keep things on a level.

Chairman of the Committee on Exhibits: Mr. Thos. Meehan, of Dreshertown, has kindly consented to handle this with his assistants. Mr. Meehan's experience along this line as well as his associates stands second to none in this country and we expect one of the largest exhibits, not only the largest, but the most attractive ever placed before the American Association. There are five men representing five different states and these men are to cover the entire United States.

The National Council of Horticulture, C. J. Maloy, of Ellwanger and Barry, is one of the best known Nurserymen of the country, fully capable of handling this part of the work for the North.

Mr. Chas. T. Smith, of Concord, Ga., is thoroughly abreast with the work of the fruit grower and nurseryman of the South and capable of doing credit to his state as the representative of the South for the nurserymen.

Mr. Chas. Ilgenfritz, Chairman of the Committee on Arrangements, is of the state of Michigan, and as Mr. Ilgenfritz remarked at Dallas Convention that Detroit was one of the suburbs of Monroe, he with his assistants are expected to make comfortable arrangements for the Association. Right here I want to say that all we want is comfortable arrangements made. We have been taking side trips for years, and I belive we have been neglecting our business to a certain extent, I trust each member of the Association will go to Detroit for the sole purpose of attending the Association meetings and then he can enjoy himself outside of the hours for the meeting in any way he desires, but it is earnestly requested that we look forward to the next meeting as a business meeting, yet we do not propose to take away from anyone any pleasure whatever that may belong to them, because I believe every nurseryman in order to succeed best in life should find pleasure in attending the American Association meetings.

Mr. McFarland, Chairman of Editing the Report, is a man well known to every Nurseryman of this country, he has rendered this Association able service in assisting and preparing a program and in many other ways.

We want your co-operation.

ORLANDO HARRISON, President.

CHANGE IN THE ILGENFRITZ FIRM.

The nursery fraternity have been interested in the change which has occurred in the well and honorably known firm of Ilgenfritz and Sons. The re-organization consists in the sale of the stock of Charles A. Ilgenfritz to his brothers who will continue the business under the old name.

Charles A. Ilgenfritz will follow the business along lines of his own specialty. An announcement will be made to the trade before long.

J. H. SKINNER & CO., SUCCESSORS TO PETERS & SKINNER, TOPEKA, KAS.

Our readers will be interested in the change in this firm which occurred too late to be duly chronicled in the last issue of the NATIONAL NURSERYMAN. The Peters' have withdrawn. In future the business will be carried on by the Messrs. Skinner. The original company was well known and enjoyed the confidence of a wide circle of business acquaintances. All who know J. H. Skinner will realize that the best principles which have characterized the policy of the old firm will be retained and emphaized under the able managements of Mr. Skinner & Sons, in the future. The NATIONAL NURSERYMAN prophesies a successful career.

C. A. Ilgenfritz of Monroe, Mich. visited Painesville, Ohio and Western New York in the last week of August in connection with business matters.

Business Movements.

"Messrs. Wm. and James T. Scott, of Tarrytown, N. J., have opened a general florist and nursery business at Elmsford, N. Y., under the title of Scott Brothers." Wm. Scott has been superintendent on the Eastman estate at Tarrytown for twelve years. J. T. Scott has been in the employ of the F. R. Pierson Co. as traveling salesman and in the landscape department.—*Hort.*, July 21.

All the Florist's Papers have their columns well occupied with reports of the recent meeting of the Society of American Florists and Ornamental Horticulturists, held at Dayton, Ohio, August 21, 22, 23 and 24. The following affiliated societies met with them: American Carnation Society, Florists' Hail Association of America.

L. F. P.

SUCCEES WITH PECANS.

The following gratifying evidence of the quality of pecan stock has been received by The G. M. Bacon Co., (Inc.) DeWitt, Ga.:

MR. HERBERT C. WHITE,
Vice-Pres. and Horticulturist.

In answer to your favor of May 30th, permit me to say that in January, 1904, I put out twelve pecan trees bought of you with the following results: Two died, ten are now living, showing a good growth. Four are bearing. One tree has 3 nuts on it, one has 18 nuts, one 21 nuts and one 51 nuts. These nuts were counted this morning by the Rev. M. A. Morgan in the presence of myself and wife. Some of my trees appear top-heavy, or the body not sufficiently strong to hold up the top. I would be glad to have a suggestion from you as to a remedy for this.

Yours very truly,
McKae, Ga. (Signed) TOM EASON.

BULLARD, TEXAS, June 12th, 1906.

Gentlemen—

I am pleased to inform you that of the 500 budded pecan trees bought from you when we met in Dallas, Texas, last December, *499 are living and growing, some already having made a growth of 18 inches.*

These trees were planted in accordance with the directions you gave me. It is needless to say we are very much pleased with this result and congratulate you upon the class of trees sent us, and ourselves for their proper planting, for we know from experience that the proper planting of trees is of the greatest importance.

We shall carefully follow your advice and suggestions upon cultural points, for we feel that we may rely entirely upon your good judgment and advice in such matters.

Yours very truly,
(Signed) J. P. TWOHIG,
Sec'y and Gen'l Mgr.

WELLAND CO., ONTARIO, CANADA,
Aug. 10, 1906.

THE NATIONAL NURSERYMAN PUB. CO.,
Rochester, N. Y.

Dear Sirs: Enclosed find $1.00 in payment of another year's subscription to the NATIONAL NURSERYMAN. The fact that I have been a subscriber for a good many years to your paper and now renew my subscription, shows the great value placed upon the periodical.

Yours truly,
BROWN BROTHERS COMPANY,
Nurserymen, Limited.
EDWARD C. MORRIL.

On Monday, August 20th, H. Harold Hume, well known throughout Florida and the South as an authority on horticultural subjects, returned to Florida to make his home permanently. He will be associated with Mr. G. L. Taber in the Glen Saint Mary Nurseries at Glen Saint Mary, Florida, a nursery concern which for a quarter of a century has enjoyed the confidence and patronage of Southern horticulturists. His connection with Mr. Taber's nurseries will add prestige to the business and his past record is a token of what may be expected from that concern.

News of Prof. Hume's return to Florida will be welcome to the many fruit growers and nurserymen of the South. From 1899 to 1904 Prof. Hume was horticulturist of the Florida Experiment Station and Professor of Horticulture in the University of Florida. Since that time he has been horticulturist to the North Carolina Department of Agriculture and Experiment Station.

As a writer, lecturer and investigator of horticultural problems Prof. Hume has won an enviable reputation. During his connection with the Florida Experiment Station, some eighteen bulletins were written by him on various subjects. His Monograph of Citrus Fruits, published in 1904, is the standard work on orange culture to-day and his new work on "The Pecan and Its Culture" is now nearly ready for distribution.

REMOVAL NOTICE.

Thomas E. Burroughs of New London, Ct., notifies THE NATIONAL NURSERYMAN that he has moved his place of business. In future his address will be Deep River, Ct.

Knoxville, Tenn., July 29.—Congressman Nathan W. Hale, of the Second Tennessee District, thought a hard task had been set him when one of his constituents, a few days ago, urged him to introduce a bill prohibiting dancing; but to-day, when he received a letter signed "A Citizen," urging him to pass a bill in Congress prohibiting "peek-a-boo" shirtwaists, corsets and paint and powder, he feels more like resigning than undertaking the task of pleasing the constituent.—*Phila. Press.*

A block of young cherry stock. Knox Nurseries, Vincennes, Ind.

Correspondence.

STATUS OF PREVENTIVE MEASURES AGAINST SAN JOSE SCALE.

EDITOR NATIONAL NURSERYMAN:

We are receiving correspondence almost daily from fruit growers from various parts of this country, some of whom seem to be getting discouraged in growing fruit for market, on account of the inroads the San José scale has made, and the idea has occurred to us that it would be advisable to publish a circular giving the opinions of authorities on the subject of combatting the San José scale, also the effectiveness of the sulphur, lime and salt mixture in destroying the insects, as well as the benefits the trees derive from being sprayed with this mixture. From our own personal observance, we find that if this mixture is carefully and properly applied, it is a benefit to any tree, and that after the application is made the bark becomes smooth, healthy and clean.

Judging from the tone of the letters we are receiving and the personal conversations we have had with fruit men, we believe that it is opportune at this time to publish experience, or do something to encourage the fruit growers, and to bring to them the information that the San José scale can be successfully combatted. Will you kindly secure an expression of opinion along this line? We hope that this will bring out, as much as possible, the good effects to the tree itself in using the mixtures recommended.

THE GREENING NURSERY CO.

Monroe, Mich.

NOTE.—This is an important subject. The confidence of growers in their ability to cope with the insect is shaken in certain localities. What we want is actual experience. Let us have it.—Ed.

TRANSPORTATION AND THE NURSERY BUSINESS.

EDITOR NATIONAL NURSERYMAN:

It has been a long time since I read a piece that I enjoyed better than the description given in the last issue of the NATIONAL NURSERYMAN of the Huntsville Nurseries. It was especially that part relating to the distance of the nursery from a transportation line or distributing point. Somehow, I had it in mind that no business of any importance was carried on that far from a railroad station. I myself am handicapped to the extent of a sixteen-mile haul, the exact spot of which can be seen on any map—400 acres in the junction of the Colorado and San Saba rivers. When I bought this tract of land, and without any improvements, I had no idea of living on it myself, but finding it so well suited to the developing of the pecan industry, I decided to improve same by building one string of fence—one was all I had to build—across from one river to the other; then I put up some buildings. Later on I found that if I wanted things to go my way, I had to live on the place myself. I have not been pushing my business, but as time goes on I find it's now pushing me. Sometimes I think I won't stay here, but when I read such accounts as the one mentioned it gives me new courage and downright reconciliation, and hope to hear from others similarly situated.

E. E. RISIEN.

Rescue P. O., Lampassas Co., Tex.

NOTE.—Mr. Risien is the proprietor of the West Texas Pecan Nursery, and claims the largest collection of named varieties of pecans in bearing, in Texas. He propagates ten or twelve varieties for the trade, and furnishes scions of a large number on special demand.—Ed.

GEORGIA HORTICULTURISTS.

NEXT MEETING, AUGUSTA.

The 30th annual session of the Georgia State Horticultural Society convened at Macon on August 7th and 8th. The attendance was rather small, but a number of extensive fruit growers were represented.

At the afternoon session on the 7th, the Society heartily endorsed passage of immigration bill, now pending before the Georgia legislature, which has in view the establishment of an immigration bureau, in order to let the immigrants who are coming to this country know more of the possibilities of Georgia. Under the present labor conditions in this State it seems almost imperative that our people get a good class of immigrants who can take the place of the negroes.

PAPERS.

During the meeting a number of subjects were discussed, as follows: Result of Experimental Work Conducted by the Board of Entomology," by R. I. Smith, State Entomologist; "Pear and Apple Blight, and Suggested Remedial Treatment," by A. C. Lewis, Asst. Entomologist; "Preliminary Report of Experiments with the Apple Codling Moth in North Georgia," by W. V. Reed, Field Assistant Entomologist; "Crown Gall; A Supreme Menace to American Pomology," by Prof. H. N. Starnes, Horticulturist, Georgia Experiment Station; "Fatal Errors Committed in Transplanting Pecan Trees," by J. B. Wight, Cairo, Ga.

There was a good display of fruit, grapes, apples, pears, plums, etc., but on account of the peach season being over, very few peaches were displayed. One lot of Elberta peaches which had been in cold storage nearly two and a half weeks showed up well, and served to demonstrate the value of keeping peaches in cold storage.

OFFICERS.

The officers for the Society for next year are as follows: President, Dr. P. J. Berckmans, Augusta, Ga.; Secretary, J. B. Wight, Cairo, Ga.; Treasurer, L. A. Berckmans, Augusta, Ga. The meeting next year will be held at Atlanta, Ga.

R. I. SMITH,
State Entomologist.

A glimpse down a row of two year Montmorencys. One year Richmonds.

The Knox Nurseries. Vincennes, Md.

MEETING OF INTERNATIONAL APPLE SHIPPERS ASSOCIATION.

The meeting of this great aggregation of apple men at Niagara Falls, August 1st and 2d, was the largest in the history of the association.

"Apple Boxes vs. Apple Barrels," was treated by C. H. Williamson, Quincy, Ill., who advocated one grade of fruit for boxes, and that the highest. "Last year," said Mr. Williamson, "some western men put in seconds, thirds, and even fourths in boxes, and down in Texas they were accused of tying a red bandana around a cotton ball and selling it for a Ben Davis apple." He believed that apples would grade higher than for many years past. The concensus of opinion favored boxes for high grade fruits, and favored the box as a profitable package for such fruit.

An excellent paper was read by D. S. Taggart, of Wilson, N. Y., on buying, storing and shipping. He also gave some excellent practical suggestions on the loading of apple barrels at the packing house.

L. K. Sutton, Columbus, O., believed that Ben Davis was the most profitable apple grown to-day, with Baldwin second, and Jonathan third.

LEGISLATION.

On the suggestion of Professor Craig, a committee was appointed to co-operate with a similar committee of the American Pomological Society, for the purpose of formulating grades which shall represent standards for the leading varieties of apples in the different sections of the country in which these kinds are grown commercially. This committee consists of Messrs. C. H. Williamson, Quincy, Ill.; H. M. Dunlap, Savoy, Ill., and D. S. Beckwith, Albion, N. Y.

OPTIONAL INSPECTION.

As an outcome of a paper by the same writer, a committee was appointed, consisting of Frank T. Stults, T. A. Watson, E. N. Loomis, W. H. Bahrenberg and G. W. Olivet, all of New York, to take up the matter of optional inspection of apples with the Washington authorities. The concensus of opinion was in favor of giving the matter a thorough investigation. This is an important step, and one which may lead to radical reforms in the handling of export fruit.

Next meeting place, Atlantic City, N. J.

OFFICERS.

President, W. O. Wiley, Detroit; Vice-president, J. W. Frey, Rochester; Secretary, A. Warren Patch, Boston; Treasurer, W. L. Wagner, Chicago.

Executive Committee.—C. P. Rothwell, East Palestine, O.; C. H. Williamson, Quincy, Ill.; D. S. Beckwith, Albion, N. Y.; C. H. Weaver, Chicago; R. J. Graham, Belleville, Ont.

State Vice-presidents.—California, W. R. Keller; Colorado, G. G. Leibhardt; Illinois, C. H. Williamson; Indiana, J. L. Keach; Iowa, C. E. Francis; Kansas, W. O. Anderson; Kentucky, E. H. Bowen; Louisiana, Sam Segari; Maine, F. A. Wing; Massachusetts, W. H. Blodget; Michigan, C. C. Emerson; Missouri, John V. Gazzolo; Nebraska, O. W. Butts; New Jersey, C. Wolters; New York, A. J. Rufsey; Nova Scotia, Fred Pritchard; Ohio, L. K. Sutton; Ontario, J. C. Smith; Pennsylvania, G. W. Butterworth; West Virginia, J. M. McCoach; Wisconsin, S. R. Godfrey; Chicago, S. A. Wheelock; New York city, Carl Kimball.

THE APPLE CROP.

It is always difficult to gauge with a satisfactory degree of accuracy the amount of this great fruit staple. There seems to be no doubt that it will considerably exceed that of last year. The quality, too, appears to be above the average. It is not likely that a bumper crop will be rounded up, but it seems quite safe to say that the year will see something more than an average yield, and that it is likely to turn out well in the picking.

HOOD RIVER PROMISES A LARGE CROP.

Hood River, Ore., July 18.—There will be about 150,000 boxes of apples marketed from Hood River this season, according to present estimates. This is a large crop, and will be the biggest crop ever grown in Hood River valley, on account of new orchards coming into bearing.

There are probably only about 500 acres of old bearing orchards in the valley, while fully 3,500 acres have been set out. Most of this is three, four and five years old. The five-year-old trees will have apples in nearly all cases, and in some cases four-year-olds will have a few. In three years, it is estimated that the output of Hood River apples will be 750,000 boxes. The bulk of these will be Yellow Newtowns and Spitzenbergs. New orchards are being set out in the valley at the rate of 300 to 500 acres per year.—*The Packer.*

Prices is the all-absorbing topic of conversation among apple men now, and considerable gossip was going the rounds of the hotel corridor at the convention last week, says the New York *Packer*. It is known that Conrad Schopp, the big St. Louis operator, is going into the deal this year up to his ears, and is buying Missouri, Illinois and Arkansas fruit, orchard after orchard, at seventy-five cents per barrel for the fruit.

Western New York operators are slow to get started, but a few contracts have already been made.

Several orchards have been sold for $1.50 per barrel for the fruit. This, of course, means No. 1s. However, this price cannot be taken as a standard. Operators and growers alike have been widely apart in their views, and while some buyers are talking 75 cents and $1, the growers have the $2 and $3 idea buzzing in their bonnets. The *Packer* man heard of one buyer who got 1,000 barrels of Baldwins for $1.75 f. o. b. shipping station. He heard of another contract made at $1.65 for 1,500 barrels. One big apple packer offered an exporter 10,000 barrels of No. 1s. at $2 f. o. b. New York. The exporter said he would think it over. He decided to take the stock, but when he went to look for the seller he could not find him, and did not succeed in making the contract.

BILLINGS, MO., Aug. 2, 1906.

THE NATIONAL NURSERYMAN,
Rochester, N. Y.

Gentlemen: Enclosed please find money order for one dollar ($1.00) to pay for another year for your valuable paper. I don't want to be without it as I get all the news from it. I am,

Respectfully yours, J. W. TRIBBLE.

APPLE SHIPPERS' ESTIMATE OF THE 1906 CROP.

The following, while not the official estimate of the association, is regarded as expressing with approximate accuracy the opinion of the statistical committee on the apple yield for the present year. We quote the *New York Packer:*

"The committee on crop reports did not give the estimate of crop by states, the custom having been discontinued last year. They, however, issued the following: 'The prospects for the coming crop of apples in the United States, Canada and Nova Scotia, taken as a whole as compared with last year, is double the quantity and in quality far exceeds any crop of recent years, barrelling relatively therefrom more No. 1 apples in proportion to the crop than in any previous year in our guarantee.'

ESTIMATE OF THE CROP IN DETAIL.

Although the executive committee decided not to give out any crop report in detail, the following are the conclusions as settled on in the executive session: This information was obtained from a member of the committee, but without the committee's sanction. The following estimate by states as made by the committee is based on the crop of last year:

Kansas—250 per cent. Quality good.
Arkansas—350 per cent. Quality good.
Iowa—350 per cent. Quality good.
Nebraska—350 per cent. Quality good.
West Virginia—50 per cent. Quality fair.
Virginia—25 per cent. Quality fair.
Maryland—25 per cent. Quality good.
Tennessee—100 per cent. Quality fair to good.
Colorado—100 per cent. Fairly good.
Idaho—50 per cent. Quality fair.
Utah—50 per cent. Quality fair.
Montana—50 per cent. Quality fair.
California—100 per cent. Quality good.
Oregon—85 per cent. Quality good.
Washington—200 per cent. Quality good.
New York—155 per cent. Quality good.
Canada, not including Nova Scotia—100 per cent. Quality good.

Last year's apple crop was estimated at 27,000,000 barrels. Conservative members of the association think that this year's crop will be two and a half times greater than last year's, or 67,500,000 barrels. The crop this year will approach closely to that of 1896, the banner year for apples in the history of the crop for the last twenty-five years. That year there was 76,000,000 barrels."

Note and Comment.

"*Horticulture*" (July 28), is responsible for the statement that there is a noticeable diminution in the ravages of the brown tail moth, about Boston, great numbers of the hibernating insects having died in their nests. However, in that issue of July 21, it is stated that the elm leaf beetle and the tussock moth are making up this deficiency by their increased activities.

The old seed firm of Alfred Bridgeman has been sold to the Rickard Bros. who assumed control August first.

"The Kentucky Nursery Co.," Louisville, Ky., has been incorporated with a capital stock of $30,000. Incorporators: F. Boone Gardiner, M. C. Gardiner, and R. L. Cullen.—(*Flor. Exch.*, Aug. 4.)

Joseph Meehan has a short article in *Florists' Exchange* for July 21 on the ornamental value of Fraxinus ornus, the Flowering, or Manna Ash. "To those acquainted with the beauty of the Traximus Ornus when in flower it is always a surprise to find so many collections of trees without it being represented in them. Aside from its other merits there are so very few trees flowering when it does, in early June. The flowers are fleecy white, prettier, we think, than those of the white fringe (Chionanthus Virginica). The flowering ash makes but a small tree, 20 to 30 feet, which allows of its being planted in positions in which large growing ash trees could not be permitted, and it commences to flower when it is quite young."

PACIFIC COAST NOTES.

BY PROFESSOR C. I. LEWIS, CORVALLIS, ORE.

THE SALEM CHERRY FAIR.

The three great cherries here are Royal Ann (Napoleon) Bing, and Lambert. The latter is fast becoming our commercial cherry. Your readers doubtless know the cherry. It is a large, clear red fellow, nearly black when ripe, and is the best shipper here. A consignment was sent to London, and though they were fourteen days on the way, they arrived with only thirty per cent. loss. They are being shipped to Mexico City, seven days en route, without refrigeration, and arrive with very little loss. They are bringing good prices. They have one weak point, and that is that they do not ripen early enough. If we could have a cherry of the Lambert firmness, but the color and earliness of the Royal Ann, we would have what we need. We expect to work upon this problem at the station. The cherries at our recent fair at Salem were the largest I had ever seen, like our eastern plums; the packing was superb, especially that of Mr. Woodworth, of Hood River. One of the favorite packs is the ten-pound box with four cartons; these cartons contain about the amount of fruit an ordinary purchaser would require. Mr. Woodworth has printed on his boxes and cartons, "from grower to consumer." He is very successful, and freely gave out much valuable information as regards prices and methods. Besides the ten-pound boxes there were the twenty and thirty-pound boxes. Mrs. Webb, of Troutsdale, had a fine display of Lamberts in thirty-pound boxes. It was a difficult task to award the cups.

The addresses at the Salem meeting were very good. Mr. M. McDonald spoke on "The Cherry of Oregon," stating what he considered the ideal cherry. The paper was followed by a general discussion as to methods of plant-breeding.

The address of the writer was on the subject of plant adaptation, and was well received by the audience. It also elicited favorable editorial comment from some of our leading horticultural journals. It appears to be a subject in which the growers are deeply interested.

The next paper was by one of our county inspectors, Mr. Armstrong, in which he outlined the "Duties of a County Inspector." Mr. Woodworth closed the afternoon by relating his wonderful success in packing and shipping to Mexico, London, Alaska, etc. E. A. Franz, who is from Hood River, and is about to publish a new paper, "Better Fruit," read a paper on "What Fruit Growers Must Do." In the evening there were two addresses, besides a welcome by the city, and response, an intermission, when punch was served. Col. H. E. Dosch talked on "Walnuts." The next speech was one of the best of the session—"What the Walnut Can Do For The Willamette Valley"—by H. M. Williamson. He is one of the best posted men in this State, is very earnest and has a most deserving popularity. The next morning we were delightfully entertained by the Oregon Nursery Company, who took us on a long drive to their grounds. A few short addresses were given in the afternoon. On the whole, the meeting was a great success.

PACIFIC COAST NURSERMEN.

The next meeting of the Pacific Coast Nurserymen will be held in California during the fore part of December, at the same time and place as the California Fruit Growers convention and the meeting of the State Horticultural Commissioners and Inspectors, and we expect to have the largest and best attended meeting ever held by nurserymen on this coast.

If any nurseryman contemplates coming to the coast this winter, let him try and make it a point to be in California about the 3rd or 4th of December, as the meeting will probably open on the first Tuesday in December, and the three conventions being held at the same time, and with special sessions set apart for each, we should have a very interesting meeting. F. W. POWER,

President.

COMMITTEES OF PACIFIC COAST ASSOCIATION OF NURSERYMEN.

Committee on National Uniform Inspection Laws: A. McGill, S. A. Miller, C. A. Tonneson.

Committee on Legislation: Oregon.—A. McGill, S. A. Miller, C. F. Lansing. Washington.—C. A. Tonneson, G. W. R. Peaslee, A. Eckert. California.—C. W. Howard, Geo. C. Roeding, Fred Nelson. Idaho.—C. P. Hartley. Utah.—P. A. Dix. British Columbia.—M. J. Henry, R Layritz.

Grievance Committee: S. A. Miller, W. D. Ingalls, H. A. Lewis.

Book Review.

"Plant Breeding." L. H. Bailey. Macmillan & Company. 4th edition. Price $1.25.

This volume differs from the preceding ones in that there is a chapter on Mendellism, and a record of recent plant breeding progress in the United States and Canada. There is also an estimate of the work of Luther Burbank, and a number of blanks showing how plant breeding records may be made. The volume is also valuable on account of the complete bibliography of plant breeding which has been elaborated and brought up to date. The work is to be commended to the person who is interested in the pedagogics of plant breeding.

"The Homes of Tennyson." Painted by Helen Allingham, described by Arthur Paterson, with full page illustrations in color. 9″ x 6½″. 98 pages. Published by the Macmillan Co., New York. Price, $2.00.

In this book are described the two unpretentious, but deservedly famous homes of the great poet, Farringford and Aldworth. The volume is very much more than a full description of the homes. It contains interesting sketches of the habits of the owner of these estates and valuable personal estimates of the man himself. Of course the main purpose of the book is to describe the landscape and general rural features. As emphasizing the well known fact that Tennyson was a great lover of nature, a man who delighted in wandering in field and wood, whose interest in little things of nature never faded, whose virility and vivacity of thought were constantly stimulated by outdoor occupation and associations, and the moral which all this brings, the book has a special value, and an important mission. It is well written and attractively illustrated in colors. It may be regarded as an addition to the memoirs of a great poet, and as such can be placed in one's library and consulted with pleasure and profit.

Doings of Societies.

SUMMER MEETING OF MARYLAND STATE HORTICULTURAL SOCIETY.

HELD AT J. G. HARRISON & SONS, BERLIN MARYLAND, AUGUST 11-12.

Upon the arrival of the train bearing the visiting Horticulturists for J. G. Harrison & Sons, who kindly entertained the Association at this meeting, the members were escorted to the beautiful lawn of G. A. Harrison, where a very elaborate dinner was served by the hosts. After partaking of the sumptuous meal, including deviled crabs, watermelon, cantaloupes and fruits, the meeting was called to order by President E. P. Cohill, of Hancock, Maryland. Mr. Cohill expressed himself as being greatly pleased with the large number present, over four hundred. He also spoke of teaching Agriculture and Horticulture in the public schools in the state, and thought this Association should take some active steps toward promoting this work in Maryland.

Hon. Orlando Harrison, Mayor of Berlin, delivered the address of welcome. Mr. Harrison in appropriate terms welcomed the Horticulturists of Maryland, as well as those from the other states to the city of Berlin and to his home. He emphasized the importance of Horticulture, especially in Maryland, and said that each and every one engaged in this work should attend the meetings of the Horticultural Society, as well as other kindred Associations in other states. Mr. Harrison impressed upon the audience the great value of the Maryland Agricultural College and Experiment Station, as a means whereby the youths of our state can secure information that will make them ideal Horticulturists. In closing, Mr. Harrison extended a very hearty welcome to all.

The response to the address of welcome was happily delivered by Mr. N. F. Flinton, of Baltimore City. Capt. R. W. Silvester, of the Maryland Agricultural College, delivered a very instructive address, touching upon the various phases of Horticulture, and spoke of the great progress that is being made on that science to-day, and predicted that Maryland will in the future, more so than in the past, produce the best fruit that can be had. He said the Agricultural College is doing all in its power to promote Horticulture, and sent out students worthy of their position and occupation, men who are willing to take up their work in their respective specialties. He spoke of the importance of organization in Horticulture, and called attention to the organization and progress of husbandry in the United States.

Dr. E. J. Derrickson spoke of the early history of peach growing on the Eastern Shore, and was followed by Prof. F. A. Waugh, who gave the audience a few words of encouragement along Horticultural lines.

INSPECT THE GROUNDS.

At the conclusion of his address, the members of the Association were conducted in carriages by the Messrs. Harrison and toured the one thousand acres of their nursery stock. The members were very much pleased and astonished at the tremendous acreage of this firm, in nursery stock of peach, apple, plum and cherry trees, also strawberry plants. The excellent condition of the trees was sufficient evidence that careful management prevailed, and the one aim was producing fine healthy trees. It was a rare opportunity that the men of Maryland and other states had of seeing trees by the hundreds of thousands. The Harrison's are working more than two hundred men and boys, budding and cultivating, using more than fifty horses and mules. Their work is done systematically, and their large packing-houses enables them to handle millions of trees in the best possible method. They started from the ground nineteen years ago, and have built up a business for any firm to be proud of. They have many competent men, who have been with them for years.

ENTERTAINED BY THE HARRISON'S AT OCEAN CITY.

After the tour through the nursery, the party was conducted by a special train to the great sea-side resort, Ocean City, where they were entertained over night by the Messrs. Harrison. In the evening the visitors had the pleasure of spending the time upon the beach of the great ocean.

At nine A. M. Thursday morning, the meeting was called to order by Pres. Cohill, and announcements were made by the Secretary, Mr. Thos. B. Symons, who called attention to the winter meeting and the prizes offered for the fruits, vegetables and flowers. which meeting was to be held at the Fifth Regiment Armory, Baltimore, December 5th and 6th, and insisted upon a good exhibit.

Prof. A. L. Beattie then spoke of the practical co-operative work of the Atlantic and Gulf state growers. Prof. Beattie gave some of his experiences in his recent work along the Atlantic and Gulf states in transportation by truckers in various localities. He urged co-operation in transportation and the formation of an exchange in desirable places. He exhibited a number of photographs showing the methods of packing the various vegetables and fruits by the different growers in those states.

DELEGATES PRESENT.

Dr. J. H. Ward of New Jersey delivered the greetings of the state of New Jersey and of the Association of that state. Likewise Mr. J. H. Barker of Delaware spoke from his state.

Wesley Webb, Secretary of the Peninsula Horticultural Society, also addressed the Association, speaking on the work done by the Peninsula Horticultural Society.

Prof. F. A. Waugh, of the Agricultural College of Massachusetts, spoke in his usual instructive manner. His remarks were specially along the lines of fruit growing. He treated the subject elaborately, from the planting of the tree to the selling of the fruit. His address was enthusiastically received.

Prof. W. N. Hutt, of the Maryland Agricultural College, spoke of the fruit prospects in Maryland for 1906, and gave some very valuable information, touching upon the damage done by the late spring frost in various parts of the state ; the systematic planting of trees in proper localities to avoid late frosts, and to prevent the fruit from being killed under ordinary circumstances.

At the conclusion of his address, Dr. E. P. Magruder presented a resolution expressing our great loss to the Society in the recent death of Capt. R. S. Emory, of Chestertown, Md., and moved that a copy of this resolution be sent to the family. He also presented a resolution thanking the committee appointed by this Association to look after the additional appropriation for the Society. There was also a resolution passed thanking Messrs. J. G. Harrison & Sons for their exceeding great hospitality on this occasion.

It was voted by all present that this was one of the most successful meetings of the Maryland State Horticultural Society, not only by reason of the enthusiasm of its members, but on account of the great number present, more than ever attended before.

The Messrs. Harrison were given an ovation by the Florists' Club and Horticultural Society on the departure of their guests from Ocean City.

QUALITIES OF A COMMERCIAL WALNUT.

M. MC DONALD, ORE.

First. Large enough to meet its competitors, whether of the French or English soft-shelled varieties.

Second. The nut meats must fill the shells.

Third. The meats must have a white covering.

Fourth. The flavor must be the best.

Fifth. The shell must be what is termed "medium soft shell."

Sixth. And finally, the shells must be well sealed, to endure many handlings of long distance markets.

BRAGG'S COMMON SENSE TREE DIGGER.

The tree digger question is one that all who are growing trees are interested in.

We are now making them in double the number, and are quite positive that we can avoid returning any drafts on account of not being able to fill orders with "The Best Tree Digger on Earth." This is not a boast of ours entirely, for over one thousand of our customers say the same—"The Best Tree Digger on Earth."

SUMMARY OF LAWS OF ALL STATES AND CANADA GOVERNING TRANSPORTATION OF NURSERY STOCK.

BY R. I. SMITH, STATE ENTOMOLOGIST OF GEORGIA

Alabama.—A signed copy of inspection certificate must be filed with the Secretary of the Alabama State Board of Horticulture, Auburn, Ala. Accompanying the certificate must be sufficient money to pay for the necessary Alabama tags. A tag must be attached to every package of nursery stock delivered in the State. Tags are furnished at the following cost prices: First one hundred (100), 65 cents postpaid; two hundred (200), $1.00 postpaid; five hundred (500), $1.60; one thousand (1,000), $2.20, sent collect by express. Nurserymen must attach one of their own certificates as well as an Alabama certificate to each bundle of nursery stock. Also the following insects and fungous diseases are quarantined against: San José scale, New Peach scale, Woolley Aphis, Strawberry Root Louse, Crown Gall, Black Knot, Peach Yellows, Peach and Plum Rosette.—Mr. R. S. Mackintosh, State Horticulturist, Auburn, Ala.

Arizona.—No law.—R. H. Forbes, Director of Experiment Station, Tucson, Ariz.

Arkansas.—All shipments of nursery stock into this State must bear a certificate of inspection of a State or Experiment Station Entomologist of the State where such stock was grown, and the package must bear the name and address of the consignor as well as the consignee.—Mr. C. F. Adams, State Inspector of Nurseries, Fayetteville, Ark.

California.—All nursery stock shipped into this State shall have marked upon it, in a conspicuous place and manner, the name and address of the consignee. The name of the State, country or territory where the stock was grown must also be shown. All stock is subject to inspection and disinfection after its arrival within the State. All stock infested with insect pests or diseases not existing in California will be returned to shipper or destroyed. No apricot, peach or nectarine trees or cuttings, grafts, buds, etc., of the same, will be admitted when they have been in a district where rosette or yellows is known to exist.—Mr. Edward M. Ehrhorn, State Horticultural Quarantine Officer, Room 11, Ferry Building, San Francisco, Cal.

Colorado.—Shipments subject to inspection by county inspectors, under direction of the State Board of Horticulture.—Mrs. M. A. Shute, Sec'y, Denver, Col.

Connecticut.—All nursery stock shipped into this State must bear a certificate of inspection issued by a State or Government officer, together with a statement that it has been fumigated. This fumigation statement can be made by the nurseryman.—Mr. W. E. Britton, State Entomologist, New Haven, Conn.

Delaware.—The law requires that every package or car load of nursery stock coming into the State shall bear a certificate of inspection, given by a recognized entomologist, and stating that the stock has been examined and found to be free from dangerously injurious insect pests and plant diseases. The inspection must have been made not earlier than August 1, and the certificate is good for one year from date of inspection. The stock must also bear the certificate of the nurseryman or shipper stating that the stock has been properly fumigated with hydrocyanic acid gas. No official tags are necessary. It is not required that the certificates be filed in the office of the State Entomologist. No fees are charged outside nurserymen. All nursery stock not accompanied by a proper certificate is held up at the railway station or other transportation office and cannot be delivered until it has been examined by a State inspector.—The Entomologist and Chief Inspector is Mr. Wesley Webb, Dover, Delaware.

Florida.—In accordance with the laws of Florida, chapter 5480. (No. 109), being an Act enacted in 1905, requiring nurserymen to pay a license tax, it is provided as follows: "It shall be unlawful for any person or persons, corporation or firm, who do not reside within this State, to sell or offer for sale, any fruit trees or flower plants without first having paid a license tax to the collector of revenue, of the county in which said fruit trees or flower plants are sold or offered for sale, in the sum of twenty-five dollars per annum, and upon the payment of said sum of twenty-five dollars, the county judge of the county in which said fruit trees and flower plants are sold or offered for sale, shall issue license to such non-resident in the same manner and form as other license taxes are now issued in the several counties in the State of Florida, to persons to do, and carry on business in said counties. Any person or persons, corporation or firm, violating the provisions of this Act, shall be deemed guilty of a misdemeanor, and, upon conviction, shall be punished by a fine not less than twenty-five dollars or more than one hundred dollars, for each offense, or imprisoned in the county jail not more than three months or less than thirty-days, at the direction of the court."—Mr. E. H. Sellards, State Entomologist, Lake City, Fla.

Nurserymen or dealers in nursery stock residing in other states, who desire to ship nursery stock into Georgia, must file with the State Entomologist (Atlanta, Ga.), a copy of their certificate of nursery inspection signed in person by a duly authorized State or Government Entomologist. In addition to the certificate the nurserymen are required to file a signed agreement to the effect that all stock consigned to points in Georgia will be fumigated with hydrocyanic acid gas, in a manner approved by the State Entomologist of Georgia. Upon receipt of the above mentioned certificate and fumigation agreement the official tags of the Georgia State Board of Entomologist are issued to the nurseryman at the cost of printing, as follows: 100 tags, 60 cents postpaid; 200 tags, 85 cents postpaid; 300 tags, $1.10 postpaid; 500 tags, $1.35, sent by express collect; 1000 tags, $2.00, sent by express collect.

All shipments of nursery stock into Georgia must bear a copy of the official Georgia tag—which bears a fac-simile of the signature of the Entomologist of Georgia—and also a copy of the certificate issued by the proper official of the state where such shipment originated. Any shipment not so labeled shall be liable to confiscation upon the order of the Entomologist of Georgia. Transportation companies are required to give notice when any uncertified shipments of nursery stock are received at any point in the State of Georgia.

Owing to the difficulty of detecting trees standing in the nursery, affected with crown gall, and root gall, nurserymen will be given a certificate only with the understanding that all such affected trees shall be discarded when dug.

Idaho.—All nurserymen doing business in this State are required to furnish a Surety Company bond in the sum of $1,000, conditioned upon a faithful compliance with the law. Requirements are: (1) All representatives must have a certificate showing that their firm or firms have given bonds; (2) That the stock being shipped in has been examined by a duly authorized officer, and a certificate of inspection attached to each package or shipment; (3) All trees, shrubs, plants, etc., must be true to name; (4) Any pit fruit coming from sections where peach yellows are known to exist is absolutely prohibited from entering the State. Also shipments from sections where pear blight or Oyster Shell Bark Scale is known to exist prohibited in any case.—Mr. A. F. Hitt, State Horticultural Inspector, Boise, Idaho.

Illinois.—All nursery stock coming into the State of Illinois shall be officially inspected, and certified by a State or Government inspector, to be apparently free from all dangerous insects or diseases. No charge is made to outside nurserymen except for expenses of inspection in case stock is received without certificate.—Dr. S. A. Forbes, State Entomologist, Urbana, Ill.

Indiana.—Every package of trees, shrubs, vines or other nursery stock shipped into this State from another State shall be plainly labeled on the outside with the name of the consignor, the name of the consignee, and a certificate bearing the current year's date, signed by a State or Government inspector showing that the contents have been examined by him and that to the best of his knowledge and belief, such stock is free from San José scale or other destructive insects or fungus enemies.—Mr. James Troop, State Entomologist, LaFayette, Ind.

Iowa.—Each shipment of nursery stock into this State must have attached to it a copy of the certificate of inspection, approved by the State Entomologist of Iowa, and issued by a duly authorized official of the State from which the shipment is made.—Mr. H. E. Summers, State Entomologist, Ames, Iowa.

Kansas.—No law.—E. A. Popenoe, Official Nursery Inspector, Manhattan, Kansas.

Kentucky.—A copy of the inspection certificate and also a list of the contents should be attached to each bundle or package of nursery stock shipped into this State. To avoid possible delays, etc., a copy

of the certificate should be filed with the State Entomologist.—Mr. H. Garman, State Entomologist, Lexington, Ky.

Louisiana.—All nursery stock shipped into this State from any other State or country shall be plainly labeled with a certificate of inspection signed by the State Entomologist, or other duly authorized official of the State or country in which said stock was grown. Shipments not so labeled shall be liable to confiscation upon the order of the Entomologist of the Crop Pest Commission.—Mr. Wilmon Newell, Secretary Crop Pest Commission, Baton Rouge, La.

Maine.—All nursery stock shipped into the State from any other State, country or province, shall bear on each box or package a certificate that the contents of said box or package have been inspected by a duly authorized inspecting officer, and that said contents appear to be free from all dangerous insects or diseases. If nursery stock is brought into the State without such a certificate, the consignee shall return it to the consignor at the expense of the latter; provided, however, that any box or package bearing a certificate of fumigation, which shall be an affidavit made before a justice of the peace that all stock sold by the consignor has been fumigated in a manner approved by the State nursery inspector of the State from which said nursery stock is shipped, the same may be accepted as though bearing a proper certificate of inspection.—Mr. E. F. Hitchings, State Entomologist, Waterville, Maine.

Maryland.—Nurserymen shipping stock into this State are required to file in this office a copy of their certificate of the apparent freedom from injurious insects and diseases, issued by a qualified State official. Each shipment shall be plainly labeled on the outside, with the name of the consignee, and a copy of said certificate attached.—Mr. Thos. B. Symons, State Entomologist, College Park, Maryland.

Massachusetts.—Copy of inspection certificate must accompany all nursery stock shipped into this State. An affidavit, executed before a justice of the peace, showing that the stock has been fumigated with hydrocyanic acid gas, using not less than two-tenths gram of potassic cyanide per cubic foot of space and exposing the stock to resulting fumes (in an air-tight compartment) for not less than forty minutes, will be accepted in lieu of an inspection certificate. The affidavit must set forth above points clearly, and a copy attached to each package, bundle or box.—Mr. H. T. Fernald, State Nursery Inspector, Amherst, Mass.

Michigan.—Nurserymen who ship stock into this State upon mail orders, must fumigate all stock subject to the attack of the San José scale and place upon each package, in addition to the usual certificate of inspection, a certificate to show that it has been fumigated. Michigan nurseries and those of other States who sell stock through agents must take out a license previous to the 1st of August of each year. The license fee is $5.00 and a bond for $1,000, with two sureties, must be filed. The conditions under the bond are that only stock which has been inspected and fumigated will be sold, and that a list of the customers will be furnished if requested. To avoid possible delays, etc., a copy of inspection certificate should be filed with the State Inspector.—Mr. L. R. Taft, State Inspector of Nurseries, Agricultural College, P. O., Michigan.

Minnesota.—All nursery stock shipped into Minnesota must bear the certificate of inspection of the proper officer of the State from which the stock is sent. Carrying companies transporting stock not so marked are liable.—Mr. F. L. Washburn, State Enomologist, St. Anthony Park, Minn.

Mississippi.—There are no restrictions in this State against sending nursery stock therein.—Mr. Glenn W. Herrick, State Entomologist, Agricultural College, Miss.

Missouri.—All nursery stock shipped into this State must bear the names and addresses of consignor and consignee and must be accompanied by an inspection certificate, issued by a duly authorized State or Government Entomologist. The certificate must state that the stock is apparently free from San José scale, peach yellow, rosette and other dangerous insects or plant diseases. Transportation companies receiving stock not covered by proper certificate are liable to conviction and fine of not less than $100 or more than $500.—Mr. Geo. B. Ellis, Secretary, State Board of Agriculture, Columbus, Mo.

Montana—All nursery stock shipped into this State shall come through one of the designated quarantine stations (Miles City, Billings, Dillon, Missoula, Kalispell, Great Falls or Glasgow), and there be unpacked or unwrapped, inspected and fumigated. Inspection and fumigation of imported stock is provided for at any point of delivery, provided the importer pays all expenses thereof.—Mr. Fred Whiteside, Secretary State Board of Horticulture, Butte, Mont.

Nebraska.—An inspection certificate should accompany all shipments into this State.—Mr. Lawrence Bruner, Professor of Entomology and Acting State Entomologist, University of Nebraska, Lincoln, Neb.

Nevada.—The law of this State provides for the appointment of county horticultural commissioners, whose duty it shall be to make inspection of orchards, nurseries, etc., and prescribe treatment of any orchards or premises found infested with injurious insects. No mention is made of requirements relative to shipments of nursery stock coming from other states. For further information apply to Mr. S. B. Doten, Entomologist, Experiment Station, Reno, Nevada.

New Hampshire.—All nursery stock shipped into this State must bear a certificate of inspection upon each bundle or package. A satisfactory certificate of fumigation (see form of fumigation certificate required in Massachusetts) will be accepted in lieu of an inspection certificate.—Mr. E. D. Sanderson, State Entomologist, Durham, N. H.

New Jersey.—Requires that every shipment of stock sent into the State must be accompanied by an official certificate issued by a State or Government Entomologist, showing that the stock has been inspected where grown and has been found free from dangerously injurious insects. This certificate must be dated not earlier than six months prior to date of shipment. This certificate is not conclusive, and stock is liable to local inspection if it seems suspicious. No official tags are required; there are no fees or charges of any kind; filing of certificates is not required; but where copies are sent to the State Entomologist at the beginning of the shipping season, shipments will pass unquestioned if the above requirements are complied with.—Dr. John B. Smith, State Entomologist, New Brunswick, N. J.

New Mexico.—No law against shipping nursery stock into this State.—Prof. Fabien Garcia, Horticulturist, New Mexico Agricultural College, Mesilla Park, New Mexico.

New York.—A certificate of fumigation must be attached to each consignment of stock shipped into New York. In addition, all shipments into the State are inspected by New York inspectors.—Hon. Chas. A. Wieting, Commissioner of Agriculture, Albany, N. Y.

North Carolina.—No nurseryman can sell stock in this State unless he be in possession of a valid certificate of inspection, and every delivery of nursery stock in this State must be accompanied by a certificate tag of this sort. It is not required that nurserymen shall secure tags from us, but their own tags will answer. The Crop Pest Commission reserves the right to forbid transportation companies from delivering within the State the stock of any person, firm or corporation, if it has reason to believe that such stock is infested, or that their business is being fraudulently conducted. It is necessary that nurserymen file in this office a copy of their certificate of inspection. Circular No. 3, new series, Crop Pest Commission, gives in condensed form all the information necessary for the guidance of Nurserymen outside of the State, and will be sent to anyone on application.—Mr. Franklin Sherman, Jr., State entomologist, Raleigh, N. C.

North Dakota.—No law.—Mr. C. B. Waldron, Entomologist, Agricultural College, North Dakota.

Ohio.—Nursery stock shipped into Ohio must be plainly labeled on the outside, with names of the consignor and consignee, and must be accompanied by an official certificate of inspection or fumigation. Agents and dealers who sell stock within the state must file sworn statements with the Chief Inspector, as to the source from which said stock was obtained and that it has been officially inspected.—Mr. A. F. Burgess, Chief Inspector, Department of Agriculture, Columbus, Ohio.

Oklahoma.—All nursery stock shipped into this Territory must bear a tag on which is printed a copy of certificate issued by the Oklahoma Board of Agriculture over a fac-simile of the signature of the Secretary of the Board. Such certificate is issued upon application of grower accompanied by a remittance of $5.00 and a report from inspector of state in which the stock is grown. Each canvasser must carry a duplicate of the permit issued to his principal; the fee of $1.00 is charged for issuance of such duplicate. Inspector is authorized to

re-inspect any shipment of nursery stock and if found infested with San José scale or other injurious insects or disease will be condemned and destroyed.—Mr. C. A. McNabb, Secretary, Board of Agriculture, Guthrie, Okla.

Oregon.—All shipments into this State are inspected at district quarantine stations or at any point of destination, regardless of any certificates which may be attached thereto.—Mr. Geo. H. Lamberson, Secretary State Board of Horticulture, Portland. Oregon.

Pennsylvania.—Whenever any trees, shrubs, plants or vines are shipped into this State from some other State, country or province, every package thereof shall be plainly labeled on the outside with the name of the consignor, the name of the consignee, and a certificate showing that the contents have been inspected by a State or Govern ment officer, and that the trees, shrubs, plants or vines (excepting conifers or herbaceous plants) therein contained are properly fumigated and appear free from all dangerously destructive insects. Dealers' certificates are also issued to agents and dealers in nursery stock under proper restrictions.—Mr. Enos B. Engle, Nursery Inspector, Harrisburg, Penn.

Rhode Island.—All nursery stock shipped into this State must bear an inspection certificate A proper fumigation certificate (see form of fumigation certificate required in Massachusetts) will be accepted in lieu of an inspection certificate.—Mr. A. E. Stene, State Nursery Inspector, Kingston, R. I.

South Carolina.—Nurserymen residing without the State of South Carolina, but who are doing business therein, are required to file in the office of the South Carolina State Board of Entomology, Clemson College, S. C., their certificate of inspection and fumigation furnished to them by the entomologist of the State in which the stock is grown. To those who comply with above requirements the official tags of the Board are issued, upon order, at a cost of eighty-five cents for the first one hundred, and fifteen cents for each additional one hundred.—Mr. Chas. E. Chambliss, State Entomologist, Clemson College, S. C.

South Dakota.—All nursery stock shipped into this State must be accompanied by a certificate of inspection, signed by a State Entomologist from the State from which said stock was shipped, stating that the stock has been inspected and found free from any injurious insects or contagious plant diseases, and it shall be held *prima facie* evidence of the facts therein stated ; but the State Entomologist, when he has reason to believe that any such stock is, nevertheless, infested by any such injurious pests, shall be authorized to inspect the same and submit it to proper treatment.—Mr. W. A. Wheeler, State Entomologist, Brookings, South Dakota.

Tennessee.—Any person, firm or corporation without the State of Tennessee, desiring to do business within this State, shall file with the State Entomologist a copy of his certificate of inspection, signed in person by the proper official of his State. And every shipment of nursery stock shipped into Tennessee must be accompanied by a copy of such certificate of inspection.—Mr. H. A. Morgan, State Entomologist, Knoxville, Tenn.

Texas.—All shipments of nursery stock made to points in Texas must bear a copy of a certificate signed by a State or Government officer, certifying that the stock has been inspected and found apparently free from injurious insects and diseases. The shipment must also bear a certificate showing that the stock therein has been properly fumigated with hydrocyanic acid gas ; in addition, the shipment must bear the name of the consignor, the name of the consignee, and a list of the contents. All shipments not so labeled when received at any point in Texas, will be held until it can be examined by the Commissioner of Agriculture, or his representative, who will have the power to have the stock fumigated or destroyed, as in the judgment of the inspector is deemed necessary.—Hon. W. J. Clay, Commissioner of Agriculture, Austin, Texas.

Utah.—All nursery stock shipped into this State must bear a certificate of fumigation, showing that the stock has been properly fumigated with hydrocyanic acid gas before shipment. All shipments of nursery stock received in the State of Utah, not accompanied by a proper fumigation certificate, will be held in quarantine at owner's risk until so fumigated, at the cost of the importer. In addition, all importations of nursery stock are inspected by county horticultural inspectors for crown or root gall, and pear blight, and all such infested stock shall be destroyed by burning.—Mr. J. Edward Taylor, Secretary State Board of Horticulture, Salt Lake City, Utah.

Vermont.—No law.—Mr. Wm. Stuart, Horticulturist of State Experiment Station, Burlington, Vt.

Virginia.—Nurserymen who ship stock into this State are required to send to the Auditor of Public Accounts (Richmond Va.), a certified check for $20.00, drawn, or endorsed, payable to the Treasurer of Virginia. Certificates of inspection must be also filed with the State Entomologist at Blacksburg, Va., and official tags secured from him for attaching to all shipments. These requirements apply whether nurserymen sell through agents or conduct only a mail order business. —Mr. J. L.Phillips, State Entomologist, Blacksburg, Va.

Washington.—All nurserymen must secure a license before engaging in the business of selling and importing fruit trees, plants or nursery stock into this State. Application for license must be made to the Commissioner of Horticulture, together with satisfactory bond in the sum of one thousand dollars ($1,000) made in conformity with the laws of the State of Washington. License fee for nurserymen and tree dealers shall be five dollars ($5.00) and for their agents or salesmen who shall be furnished an authentic copy, two dollars and fifty cents ($2.50). The license is good for two years. After securing proper license all nurserymen or tree dealers must notify the Commissioner of Horticulture of their intention to ship nursery stock into the State of Washington. Such notice shall contain the name and address of both the consignor and consignee, a descriptive invoice of the goods to be shipped, freight or express office at which goods are to be delivered, and the name or title of transportation companies handling the goods. In addition to the above, all nursery stock shipped into Washington is inspected by county inspectors upon its arrival at destination.—Mr. F. A. Huntley, Commissioner of Horticulture, Tacoma, Wash.

West Virginia.—Every dealer in and grower of nursery stock, whether in or out of this State, who employs traveling salesmen or agents for the sale of nursery stock in this State shall, before he is authorized to do business, take out a license in some county in the State, said license to be issued by the Assessor, and shall pay to the Sheriff of the county wherein said license is issued, the license fee which is fixed at ten dollars ($10.00) per annum. Every nurseryman or dealer, whether individual, firm or corporation, shall file with the Clerk of the county court where such individual has traveling salesmen or agents, a list of all such agents representing said individual, which list when filed shall be open to public inspection. All shipments into this State must be plainly labeled on the outside with the names of the consignor and consignee, and accompanied by a certificate showing that the contents have been inspected by a State or Government officer, and have been fumigated according to rules prescribed by State or Government officer, and appear to be free from all dangerous insects and diseases. Any shipment into the State without such certificate plainly affixed shall be held until consignor shall have affixed such certificate. Stock is liable to local inspection if it seems suspicious.—Mr. J. B. Garvin, Secretary, Board of Agriculture, Charleston, West Virginia.

Wisconsin.—All nursery stock shipped into this State must be accompanied by a certificate of inspection signed by a duly authorized official.—Mr. E. P. Sandsten, Horticulturist, Univ. of Wisconsin Madison, Wis.

Wyoming.—Any person or firm wishing to do business in this State must first obtain a license. Licenses are issued on application for a period terminating on July 1st of the next succeeding inspection year (approximately two years). All applications must be accompanied by the license fee ($25.00) a bond in the sum of five hundred dollars ($500.00), conditioned that the principal will faithfully obey the law of the State of Wyoming, and by a certified certificate of inspection from an authorized inspector in the State from which shipments are to be made. On receipt of these, the Secretary of the State Board issues authorized shipping tags (at cost). Nursery stock may not enter the State and transportation companies may not deliver unless such tag be attached to each and every box, bundle or bale. The presence of the shipping tag shall be taken as *prima facie* evidence of inspection and no further inspection is required, though the Board reserves the right to re-inspect, if for any cause it may deem it wise to

do so. For circular of detailed information, address Mr. Aven Nelson, Secretary State Board of Horticulture, Laramie, Wyoming.

CANADA.

All nursery stock coming into this country from countries where the San José scale has been found, must be fumigated at one of the designated points of entry by a federal official, at government expense. All nursery stock must be imported through one of the following ports of entry between the dates specified: Winnipeg, Man., and St. John, N. B., between March 15th and May 15th or between October 7th and December 7th; Windsor, Ont., Niagara Falls, Ont., and St. Johns, Que., between March 15th and May 15th or between September 26th and December 7th. At Vancouver, B. C., during the winter months only, between October 15th and May 1st.—Dr. James Fletcher, Dominion Entomologist, Ottawa, Canada.

British Columbia.—For this province all shipments of nursery stock will be inspected at the Inspection Station, Vancouver, B. C. Nurserymen are required to put up bonds in the sum of two thousand dollars ($2,000), and to take out licenses before being allowed to sell nursery stock in the provinces.—Mr. J. R. Anderson, Deputy Minister of Agriculture, Victoria, B. C.

Ontario.—All shipments of nursery stock from the United States into Ontario must come by way of Dominion Fumigating Houses at Niagara Falls or Windsor (see note above as to Canada). Sale of infested nursery stock is prohibited. All domestic nursery stock must be fumigated under supervision of officers of Provincial Department of Agriculture.—Mr. C. C. James, Deputy Minister of Agriculture, Toronto, Ont. Yours truly,

R. I. SMITH,
State Entomologist of Georgia.

DIRECTORY OF IOWA NURSERYMEN.

Annon, Louis Clarinda, Iowa.
Antisdale, H. N., Fostorie, Iowa.
Amber, Jr., James, Lovilia, Iowa.
Antisdel, H. N., Milford, Iowa.
Awelong, Wm., South Ottumwa, Iowa.
Anderson, Wm. A., West Union, Iowa.
Barnard, F. G., Waukon, Iowa.
Bechtel, Pierce, The Gateway Nursery Co., Lemars, Iowa.
Buffum, S. R. Lake Park, Iowa.
Betts, A. E., Sioux City, Iowa.
Bristow Nursery Co., Hampton, Iowa.
Bruning, Thos. F., Kent, Iowa.
Bardwell & Haviland, Fort Dodge, Iowa.
Bryant, H. G., Davenport, Iowa.
Bents, A. E., Cresco, Iowa.
Bather, John R., Clinton, Iowa.
Burnap, S. M., Clear Lake, Iowa.
Burton & Son, C. W., Cedar Rapids, Iowa.
Barnett, Peter, Riverside, Iowa.
Branson, Abner, New Sharon, Iowa.
Bancroft & Sons, Jos., Cedar Falls, Iowa.
Bock, Ernest, Burlington, Iowa.
Bomberger, Wm. M., Harlam, Iowa.
Black, G. L., Independence, Iowa.
Broillier, L., Richland, Iowa.
Bordner, W. E. Onawa, Iowa.
Chapman, F. P., Fonda, Iowa.
Coon Rapids, Nursery Co., Coon Rapids, Iowa.
Corning Nursery Co., Coon Rapids, Iowa.
Cripps, J. B., Albion, Iowa.
Carman, C. W., Fort Madison, Iowa.
Clary, Amos, Sigourney, Iowa.
Callister & Wayman, Richland, Iowa.
Cooper, Albert, Oskaloosa, Iowa.
De Moss, W. O., Adelphia, Iowa.
Drewelow, G. A., Boyd, Iowa.
Duesenberg, Henry, Rockford, Iowa.
Duel & Baker, Washington, Iowa.
Davis Bros., Waukee, Iowa.
Dayton, John F., Waukon, Iowa.
Dayton, Joel, Decorah, Iowa.
Des Moines Nursery Co., J. W. Hill, Des Moines, Iowa.
Edmondson, E. F., Perry, Iowa.
Edwards & Sons, J. H. M., Logan, Iowa.
Elder, C. M., Rock Valley, Iowa.
Eberle, J. G., Schleswig, Iowa.
Eagle Nursery Co., Kennedy Bros., Props., Montrose, Iowa.
Eaker Nursery Co., A. B. Eaker & Chas. E. Eaker, Venton, Iowa.
Fogarty, D. J., Box 93, Council Bluffs, Iowa.
Field, W. E., Oxford Junction, Iowa.
Friedley & Clark, Boone, Iowa.
Fee, W. H., Center Point, Iowa.
Fort Atkinson Nursery Co., Fort Atkinson, Iowa.
Ferris, B. F., Hampton, Iowa.
Ferris, John C., Hampton, Iowa.
Forest Nursery Co., G. J. Schaeffer, Mgr., Forest City, Iowa.
Gamble, G. A., Des Moines, Iowa.
Green Nurseries, Greene, Iowa.
Graham, M. J., Adel, Iowa, "A little of Everything;" Specialties: New Apples, Pears and Plums.
Gardner & Son, C. F., Gardner Nursery Co., Osage, Iowa.
Grandview Nursery Co., J. A. Callison, Mgr., Des Moines, Iowa.
Gibson, John M., Creston, Iowa.
Griffin & Son, J. S., Sac City, Iowa.
Guilford & Son, W. H., Dubuque, Iowa.
Gillette, C. A., Lisbon, Iowa.
Graham, J. M., Mechanicsville, Iowa.
Garland & Fowler, Afton, Iowa. Specialty, Platte Valley Red Cedars from seed. Have fine stock, both seedlings and transplants,
Graves & Sons, A. J., Ames, Iowa.
Grundeland, J. S., Calmar, Iowa.
Harrington & Co, H. H., Williamsburg, Iowa.
Hill, J. W., Mgr., Des Moines, Iowa.
Hoyt Bros., Scotch Grove, Iowa.
Hartman, S. P., Ottumwa, Iowa.
Hansen, Henry H., Long Grove, Iowa.
Healey, E. R., Bedford, Iowa.
Hoyer, Isaac R., Boonesboro, Iowa.
Harris Bros., Bussey, Iowa.
Hull, Chas. L., Fort Madison, Iowa.
Honey Creek Nursery, Honey Creek, Iowa.
Hitching, Geo., Larchwood, Iowa.
Holmes, L. W., Council Bluffs, Iowa.
Ivans, G. A., Iowa Falls, Iowa.
Interstate Nursery Co., Blakesburg, Iowa.
Iowa State Nursery Co., Berryhill & Shaul, Des Moines, Iowa.
Joneson, E., Creston, Iowa.
Johnson, Isaac, West Union, Iowa.
Jackson, R. A., Toledo, Iowa.
Koestner, Chas., Burlington, Iowa.
Kirkman & Son, Daniel, Maxwell, Iowa.
Lotspeick, D. W., Woodbine, Iowa.
Lewis, W. H., Winterset, Iowa.
Lewis, J. M., Toledo, Iowa.
Lorimor Nursery, Lorimor, Iowa.
Lochrie, Geo. R., Lorimor, Iowa.
Larson, Anfin, Linn Grove, Iowa.
Laughlin, J. B., & Son, College Springs, Iowa.
Lake, D. S., Shenandoah, Iowa.
Lenton, S. H., Des Moines, Iowa.
Linn County Nursery, S. W. Snyder, Prop., Center Point, Iowa.
Lawrence Nursery Co., Fort Madison, Iowa.
Maple Valley Nursery, Growers of hardy Nursery Stock, Long Scion apple trees on their own hard roots, Cherokee, Iowa.
Meneray, F. W., Crescent Nursery Co., Council Bluffs, Iowa.
McGeehon, R. D., Atlantic, Iowa.
McElderry, W. E., Boonesville, Iowa.
Moore, E., Decatur, Iowa.
Morgan, Howard R., Council Bluffs, Iowa.
Morris, S. W., Corning, Iowa.
Morris Nursery Co., Corning, Iowa.
Marnette, J. H., Coon Rapids, Iowa.

Midland Nursery Co., Des Moines, Iowa.
Matthews, B. A., Knoxville, Iowa.
McCoy, H. D., Knoxville, Iowa.
Manning Nursery Co., Manning, Iowa.
Meadow Brook Nursery, Maxwell, Iowa.
Mitchell, J. C., West Point, Iowa.
May, H. L., Columbus City, Iowa.
Maple Leaf Nursery, New Market, Iowa.
Nicholas & Lorton, Davenport, Iowa.
Neilson Lewis, Forest City, Iowa.
Northern Nurseries Co., Traer, Iowa.
Overman, R. E., Garrison, Iowa.
Oak Grove Nursery, Pella, Iowa.
Pelmulder & Son, C., Auburn, Iowa.
Pelmulder & Co., C., Grant City, Iowa.
Pierce, L. F., Kossuth, Iowa.
Pugh, J. W., Norwath, Iowa.
Parks, A. E., Ottumwa, Iowa.
Peck & Remington, Neola, Iowa.
Patten, C. G., Charles City, Iowa.
Pease Nursery Co., F. E. Pease, Mgr., Des Moines, Iowa.
Phœnix, F. S, Davenport, Iowa.
Powell, C. W., Wichita, Iowa.
Paul, Joseph A., Onslow, Iowa.
Pyle, W. V., Macksburg, Iowa.
Rafter, C. I., Council Bluffs, Iowa.
Raymond, H. C., Council Bluffs, Iowa.
Regan, P. J., Iowa City, Iowa.
Regan, R. S., Iowa City, Iowa.
Root, A. P., Murray, Iowa.
Royce, Beregen Shellsburg, Iowa.
Reeves, Elmer M., Waverly, Iowa.
Radcliff, H. D., Manning, Iowa.
Stacy & Son, J. E., L. A. Stacy, Successor, Algona, Iowa.
Sellers, J. F., Aurelia, Iowa.
Sunnyside Nurseries, Burlington, Iowa.
Schaffer & Son, C., Cascade, Iowa.
Schmidt, C. W., Cedar Falls, Iowa.
Snyder & Sons, A., Center Point, Iowa
Sherman Nursery Co., Charles City, Iowa.
Stiles & Foot, Cherokee, Iowa.
Stitt, E. M., College Springs, Iowa.
Sherman, E. H., Council Bluffs, Iowa.
Stanford, A. L., Fairfield, Iowa.
Smith L. H., Council Bluffs, Iowa.
Street, B. G., Hesper, Iowa.
Stanbray, W. T., Humbolt, Iowa.
Swain, S. H., Leslie, Iowa.
Shanahan, John S., Red Oak, Iowa.
Sapp, Wm., Fremont, Iowa.
Scotch, Grove Nurseries, Scotch Grove, Iowa.
Stone, I. N., Sioux City, Iowa.
Standard Nursery Co., Ziegler Bros., What Cheer, Iowa.
Sioux City Seed & Nursery Co., Sioux City, Iowa.
Schreoder, Henry, Sigourney, Iowa.
Schmidt, A. C., Wadena, Iowa.
Taggart, & Lymann, E. N. Taggart Successor, Audubon, Iowa.
Tyler, A. W., Does a general retail business. Specialties: Hardy varieties of Fruit and Ornamental trees. Council Bluffs, Iowa.
Terry, H. A., Cresent, Iowa.
Tracy, J. B., Greene, Iowa.
Tovson, K., Ossian, Iowa.
Thompson Oscar, Roland, Iowa.
Tatum, Elwood, West Branch, Iowa.
Upton Bros., Cresco, Iowa.
Watrous, E. L., Des Moines, Iowa.
Wragg, John & Son, Waukee, Iowa.
Welche's Nursery, J. C. Welch, Mgr., Shenandoah, Iowa.
Wilson, John C., Centerville, Iowa.
Wragg, M. J., No. 300 Good Block. Paying special attention to Ornamental and Landscaping Gardening. Des Moines, Iowa.
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West Branch Nursery, West Branch, Iowa.
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Wayne & Butler, Sac City, Iowa.
Wellows, J. E., Hartford, Iowa.
Wright, E. V. Hamburg, Iowa.
Willard, W. O., Grinnell, Iowa.
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Young, A. H., Grandview, Iowa.

There are a few Nurserymen

who do not know about our plan of putting up nursery orders of

Fall Bulbs and Plants

carefully packed and labelled ready to be delivered.
If you are interested, we shall be glad to give full particulars and send our new

Florist's and Nurserymen's Wholesale Catalogue

Our stock's are complete and are the best that can be produced.

Vick Quality is Superior Quality

Write to us to-day. Please mention that you are a Nurseryman and saw this ad. in the NATIONAL NURSERYMAN.

JAMES VICK'S SONS, Seedsmen
Rochester, N. Y.

MR. EDWARD MORRIS, of the FONTHILL NURSERIES, situated at Fonthill, Ontario, Canada, is offering his interest, (one third) in said Nurseries for sale; solely on account of ill-health and old age.
We wish to obtain a thoroughly posted nurseryman, with some little capital, to buy this interest, and form a partnership with Mr. Wellington, the other member of the firm. This is a good chance for an enterprising young man, who understands the business.
Correspondence solicited, when terms will be given.

Address, STONE & WELLINGTON,
TORONTO, ONTARIO.

Surplus in Medium Grade Apple in good assortment. First Class peach of Elberta, Smock, Salway, Ward's Late, and Shipleys, Silver Maple, Box Elder, and Linden; Black Locust and Catalpa Seedlings.

GREENWOOD NURSERIES,
S. BILLINGSLY, Prop. GREENWOOD, IND.

WHEELOCK & CLARK,
FREDONIA, N. Y.
Grape Vines and Currant Plants
A SPECIALTY.
CORRESPONDENCE SOLICITED.

RHODODENDRONS!

10 to 15 inches—20 to 30 inches—40 to 60 inches

All good strong plants. 13 years experience.
All orders filled promptly. Write for cash prices.

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HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

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PEACH SEED.

Headquarters for Peach Seed from all Sections and all grades.

Send for Catalogue.

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Established 1859.
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STAR NURSERIES

XENIA, OHIO.

We have the following lines of superior stock to offer for Fall, 1906:

APPLE,
ST. PEAR,
CHERRY,
PLUM,
PEACH.

We have a full supply of the famous Opalescent Apple. Plates free.

An opportunity to submit prices on any of the above stock is respectfully solicited.

McNARY & GAINES.

GRAFTED PECAN TREES
Our Specialty to the Trade.

We offer this season an exceptionally fine stock of trees of the improved large paper and soft-shell varieties at very reasonable prices.

Submit want list for prices and ask for Trade List, ready Aug. 15th.

THE NUT NURSERY CO.
J. F. JONES, Manager and Proprietor,
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Wanted, Nursery Foreman

to take full charge of a Nursery embracing about 200 acres where a general line of stock is raised, principally Ornamental. Must be one thoroughly up to-date. Good executive ability.

Such a man can secure a first-class position.

Apply with references Z, care of National Nurseryman.

Carolina Poplar

If you want a tree or a carload write us.

We also have a general line of Nursery Stock to offer including Maple, Apple, Peach, both 1 year and June budded.

Giles County Nursery Co.
R. O. LAMAR, Mgr.
PULASKI, TENN.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

PAN-HANDLE NURSERIES,

GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach

IN CAR LOTS.

We also grow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendrons, etc., etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

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Situation Wanted as Stenographer, Bookkeeper, or general office work, by young lady. Have had seven years experience with a retail Nursery Catalogue House. Address,

R. care NATIONAL NURSERYMAN.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
HONEY LOCUST 8-10 inch grades.
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RUSS. MULBERRY 8-12, 12-18, 18-24 inch, 2-5 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
WHITE ELM 8-12, 12-18 and 18-24 inch grades.

Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right ; we make them ourselves.

GERMAN NURSERIES,

Carl Sonderegger, Prop. **Beatrice, Neb.**

You'll Want New Sash

for your storage pits and cold frames—and now is about as good a time as any to buy, and there's no sash as good as the L. & B.—good because it is made honest like their greenhouses—the best of materials put together the best way and then strengthened by a round iron tie rod right through the middle, from side to side.

Light to handle—40 lbs.
Long Lasters.
Freight allowance on ten or more.
Send for Circular.

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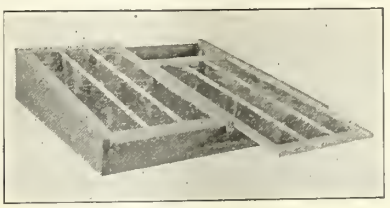

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OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

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(INCORPORATED)

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Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties
Hardy Shrubs and Ornamentals. Car lots a specialty.

OAKLAND NURSERIES

COLUMBIA, TENN.

Fruit and Ornamental Trees, Plants, Vines, Shrubs, Roses, Evergreens.

The most complete assortment we have ever grown, at lowest prices. Planters send list of wants before placing your order. Dealers' orders billed to their entire satisfaction. Agents Wanted. Mention National Nurseryman.

W. Y. C. GRANT, Columbia, Tenn.

HOWARD E. MERRELL,

GENEVA, N. Y.

has for the coming Fall and Spring an **extra fine lot** of

2yr. Dwarf Pears.

CUT LEAF W'P'G BIRCH, and HARDY H. P. MOSS and CHURBING ROSES.

He will make special rates on these items. He also has a full line of fruit trees stock, of the best quality and the standard sorts of ornamental Trees and Shrubs

SUBMIT YOUR LISTS FOR PRICES.

WEATHER-PROOF

SHIPPING-TAGS

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Paper Tree Labels

FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

The I. N. Brown Box Clamp.

LET ONE MAN DO THE WORK OF TWO.

Try One.

ENDORSED BY LEADING NURSERYMEN.
WRITE FOR PRICES AND CIRCULAR.

Manufactured and for sale by J. N. BROWN, Atlantic, Iowa.

LOMBARDY POPLAR, 2 yrs., fine, 9 to 11 ft.
LOMBARDY POPLAR, 25 ft., heavy.
CAROLINA POPLAR, 2 and 3 yrs., fine, 9 to 12 ft.
FINE SHRUBBERY. CAL. PRIVET.
PEACH TREES, &c. HEMLOCK SPRUCE, 3 to 6 ft.

JOSIAH A. ROBERTS,
Malvern, Pa.

TREE-BOX LUMBER

We are shipping to many of the largest nurseries all of their Tree-Box Lumber and they are SAVING MONEY.

Dry, Resawed Stock, Regular Lengths, Prompt Shipment.

We want to hear from you. Write us to-day for prices, etc.

GOODWILLIE BROTHERS,

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Heikes'—Huntsville—Trees

HUNTSVILLE Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss., where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

Apple Trees and Apple Seedlings

With usual supply of Cherry, Peach, and Plum Trees for Fall, 1906 and Spring, 1907.

GOOD STOCK,
GOOD GRADES.

L. R. TAYLOR & SONS,
TOPEKA, KANSAS.

WABASH R. R.

offers unexcelled service to the

WEST

FIVE DAILY VESTIBULED TRAINS
Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS
Buffalo to St. Louis
Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A., St. Louis, Mo.
JAMES GASS, N. Y. S. P. A., 287 Main St., Buffalo, N. Y.
R. F. KELLY, G. A. P. D., 287 Main St., Buffalo, N. Y.

When writing to Advertisers mention The National Nurseryman.

WHOLESALE GROWER OF

PEONIES

List of 100 varieties will be sent on request.

J. F. ROSENFIELD, West Point, Nebr.

Order Peony Plants Now

Complete List ready for distribution.

Ship September first. Stock guaranteed true.

It means something to carry away a silver cup and nine first prizes out of twelve awarded at the Exhibition of the American Peony Society. That is what we did.

PETERSON NURSERY,

Lincoln and Peterson Aves., CHICAGO, ILL.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.

From some of this land an average of $416.95, net, was made last year on Strawberries.

From Cantaloupes, $250.00.

Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.

Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent.

Louisville & Nashville R. R.

LOUISVILLE, KY.

Oakland Nurseries

will make special prices for immediate orders on PEACHES and APPLES in car lots for late fall delivery.

We also have a fine lot of Shrubbery, including Berberry Thumbergii. Don't fail to send us your want list for SPECIAL PRICES.

C. R. BURR, Proprietor,

Manchester, Conn.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,

WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

Send Your Want List.

101 best sorts

ROSES

Get Our Price List.

Hardy Climbers, Noisettes, Ramblers, Etc.

Orders booking for Fall and Spring delivery.

On own roots.

THE LEEDLE FLORAL COMPANY® SPRINGFIELD·OHIO·

2½ inch pots.

NURSERY FOR SALE.

Only one within a radius of 20 miles. Established 1887. Good Trade and first class stock. Price right and terms to suit purchaser. Will sell an interest to a practical man who will assume management. Do not fail to get particulars because you are short on funds.

GEO. R. LOCHRIE, Lorimor, Iowa.

NURSERYMEN'S STOCK BOOKS.

Revised edition; 68 pages, 16 x 21 inches. Printed on good quality ledger paper and bound in tough tag board.

PRICE, $2.00. Sample leaf on application.

SCRANTOM, WETMORE & CO., Rochester, N. Y.

CHERRY TREES

We offer both one and two year old Cherry trees for the coming fall and spring. Nurserymen who have never seen our one year trees cannot appreciate their quality and worth. Can also furnish some Plum and Peach and other stock. Let us figure on your wants.

KNOX NURSERIES,

H. M. Simpson & Son, Vincennes, Indiana

Join our Colony of Northern Folks.

New plan. Work for all. Free schools. Free fuel. Two railroads, two crops per year. Within sight of the county court house. No malaria, fine water, good markets, good neighbors and churches. Working people helped to homes.

Address,

C. W. WAUGHTEL, MGR.,

1906 Colony Co. FOLKSTON, GA.

JUNE BUDDED PEACH

ELBERTA, CARMAN, GREENSBORO

and all leading varieties guaranteed true to name

General Line Nursery Stock at Wholesale Prices

BEST OF REFERENCES FURNISHED.

WINCHESTER NURSERY AND ORCHARD CO., Winchester, Tenn.

Notice to the Nurseryman.

I am ready to book your order for

PACKING MOSS

It is of best quality to be had and will give satisfaction in every way. Prices will be furnished on application. Orders also will be shipped promptly.

Address, **BERT MITCHELL, Valley Junction, Wisconsin.**

Dreer's Herbaceous Pæonies

We will have to offer for September and October delivery an immense stock of Home Grown Pæonies in popular standard varieties, a special list describing these and quoting interesting prices is now ready. If you are interested drop us a line and a copy of same will be mailed to you.

HENRY A. DREER,

714 Chestnut St., Philadelphia, Pa.

Dresselheim Nursery and Fruit Farm For Sale

with tools and live stock. All growing Nursery Trees and Stocks, with a lively home trade ten years old, also a good Boxing and Bailing trade.

Will Sell Cheap.

This is right in the cleanest place in the whole United States. Shipping facilities cannot be beat. A correspondence or visit is solicited.

C. L. DRESSEL, Frankfort, Mich.

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance Phone and Telegraph, Snow Hill, Md.

NEW YORK CENTRAL LINES

The Great Central Railway System of America

Operating more than 12,000 miles of railway east of Chicago, St. Louis and Cincinnati

COMPRISING THE

New York Central & Hudson River
Lake Shore & Michigan Southern
Big Four Route
Michigan Central
Boston & Albany
Pittsburg & Lake Erie
Lake Erie & Western
Chicago, Indiana & Southern
Lake Erie, Alliance & Wheeling
New York & Ottawa and Rutland Railroads

C. F. DALY
Passenger Traffic Mgr.
New York.

W. J. LYNCH
Passenger Traffic Mgr.
Chicago.

I HAVE TO OFFER

Orange Quince Buds

true to name. These are very fine. I trust you will favor me with an order, which will be shipped promptly. Write for prices.

JOHN TWOMEY, Geneva, N. Y.

W. FROMOW & SONS, THE NURSERIES,

WINDLESHAM, SURREY, ENGLAND

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation, Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay Street, or P. O. Box 752.

Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1906,

For nursery stocks, of their own growing, grading and packing
For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 HUDSON ST., NEW YORK CITY.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.
Nurseries: Henrico and Hanover Counties.

OFFER FOR FALL 1906 AND SPRING 1907

Peach Trees—Budded on Natural Peach Seedlings.
Std. Pears—Nice assortment, Keiffer especially.
CALIFORNIA PRIVET—Fine Plants.
And General Line of Nursery Stock.

We have on hand about 200 Bushels Natural Peach Pits, crop 1905, and expect in due season our usual supply of this year's crop. We have been handling these seeds for years with universal satisfaction.

Correspondence solicited.

HEALTHY TREES
At BARGAIN PRICES

APPLE	PEACH
CHERRY	PEAR
PLUM	QUINCE

We also have at all times an especially fine line of ORNAMENTAL TREES, SHRUBS and EVERGREENS. Will also have in quantity the following Forest Seedlings: BLACK LOCUST, CATALPA, SPECIOSA and OSAGE ORANGE

Tell us what you want to buy and we'll make our prices interesting

The Geo. Peters Nursery Co.
TROY, OHIO.

L. Green & Son Co.

Western Reserve Nurseries,

PERRY, LAKE CO., OHIO.

Offer for fall 1906 and spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

UNIVERSITY AVENUE NURSERIES

FOR FALL OF 1906.

WE OFFER AS FOLLOWS:

Pæonies. *Not a Phantom* but a real self-contained fine collection in choice, best kinds. None better; few as good.

Baby Ramblers. In 2 years, *extra heavy* field grown plants. *The best we ever saw.*

Clematis. Two-year, field grown, Andre, Duchess of Edinburg, Henreyi, Jackmanni, Ramona, Paniculata.

Ampelopsis Veitchii. Two-year, extra strong field grown.

Dutch Pipe. Three years, very strong. Our usual grade.

Roses, H. P's. Crimson Ramblers, Dorothy Perkins, other Climbers, and Mosses.

Shrubs. All strong plants, A full desirable collection.

Syringa, Purpurea Maculata. New. The spotted Mock Orange. Exquisite, perfect perfume.

Vewnica Longiflora, subsessilis. The *New Blue Bird Flower.* A grand *hardy* border plant.

Gooseberries Downing and Houghton, 2 years, fine plants, etc.

JOHN CHARLTON & SON,
ROCHESTER, N. Y.

R. C. PETERS & SONS,

Successors to WM. M. PETERS' SONS.

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

KIEFFER ST. PEARS—two years fine stock.

CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

WHOLESALE LIST NOW READY

Long Distance Phone: Ironshire, Md. Telegraph Office: Berlin, Md.

Post Office: IRONSHIRE, Worcester Co., Md.

For Fall or Next Spring

A full assortment of **Americana, Chickasaw** and **Japan Plum,** two and one year.

One and two year Pear, Cherry, and Quince.

Carmen, ELBERTA and **Greensboro June Buds,** all grades including **3-4 ft.** and **4-5 ft.**

Mulberries, Magnolia Grandiflora, California Privet and **Prairie Roses.**

Altheas and **Dwarf Box** for transplanting.

We will commence budding Plum on Marianna, August 15th, and would like to figure with you for any number Plum one year Fall 1907.

THE FRASER NURSERY,

HUNTSVILLE, ALABAMA.

BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD-DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

APPLE TREES

IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

WEST JERSEY NURSERY, STANTON B. COLE, Bridgeton, N. J.

POTS! POTS POTS!

We are manufacturers of *STANDARD FLOWER POTS* equal to the best on the market. We make a special size Long Tom Rose Pot, for nurserymen. Write us about it if interested.

THE KELLER POTTERY COMPANY,

213-223 Pearl Street, NORRISTOWN, PA.

TWO year old Apple and Grape, and one year Peach from the bud, and one year old Cherry, for wholesale.

Write for Prices.

EAST TENNESSEE NURSERY COMPANY,

R. F. D. No. 2. CLINTON, TENN.

Charles Détriché, Senior

ANGERS, FRANCE.

GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

NEWARK, N. Y.

Sole Representatives for the United States.

E. T. DICKINSON,

Chatenay Seine, France.

GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

Gladioli, Etc. Fruit Tree Stocks.

All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

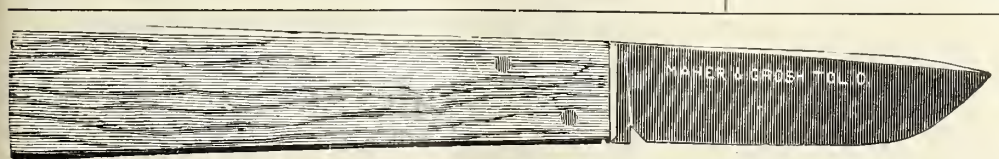
The most complete assortment of Ornamental Stocks, Trees and Shrubs.

Geo. E. Dickinson, 1 Broadway, N. Y.

1,000,000 JUNE BUDDED PEACH

Elberta, Carman, Salway, Bell of Georgia, Waddell, Hiley, Greensboro. Also General Line of Nursery Stock at wholesale. Write for prices.

SOUTHERN NURSERY CO., WINCHESTER, TENN.

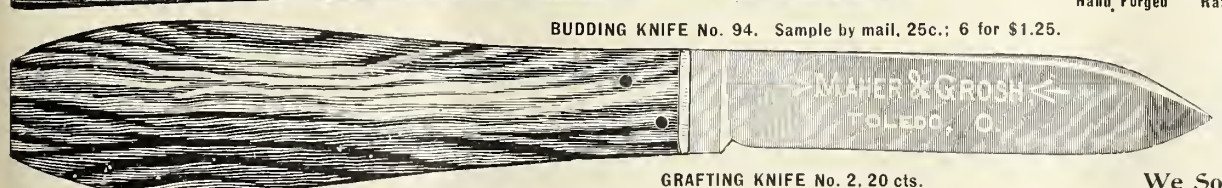


NURSERYMEN'S

KNIVES

Hand Forged Razor Steel Warranted

BUDDING KNIFE No. 94. Sample by mail, 25c.; 6 for $1.25.



GRAFTING KNIFE No. 2, 20 cts.

Nursery Pruner, 50cts.
Pocket Pruner, 60 cts.
Pocket Budder, 35 cts.
Pocket Grafter, 40 cts

We Solicit Direct Trade..

Send for 12-Page Special Nursery Catalogue.

MAHER & GROSH CO., 90 A Street, Toledo, O.

When writing to Advertisers mention The National Nurseryman.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

WEST CHESTER, PA.

OFFER FOR THE FALL OF 1906

a large assortment of Ornamental Trees and Shrubs, especially fine stock of PIN and RED OAKS, all sizes.

Would also call your attention to our VIBURNUM PLICATUM'S, fine plants.

We have the largest field of PEACH TREES we ever grew, also surplus of JAPAN PLUMS

SEND US YOUR LIST OF SHORTS.

Established 1853.

Philadelphia Office,
222-3-4-5 Stephen Girard Building.

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS, TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.
QUALITY UNSURPASSED.
Catalogue and Price List Free.
Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
BALTIMORE, MD.

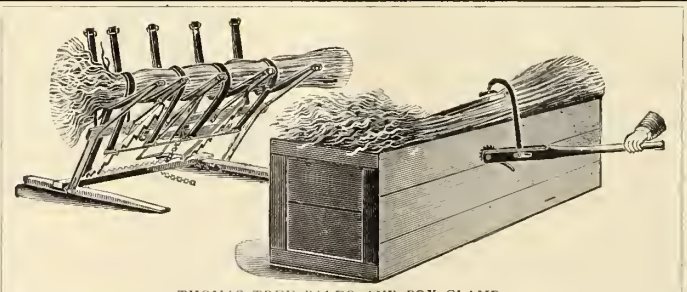
WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.



THOMAS TREE BALER AND BOX CLAMP.

SPEER GRAFTING MACHINE

Smoothing Harrow, Best Digging Spade, Bud Transplanter, other good tools for Nurserymen.

E. G. Mendenhall, *General Agent,*
Box 316. KINMUNDY, ILL.

JAMES' SONS, Nurserymen

Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.
Write direct to us, we have no agents.

WANTED TO SELL AT ONCE

A beautiful nursery in the South (At Winchester, Tenn.) 132 Acres well equipped and running. Party intends going to the West.

Address Box 217, Winchester, Tenn.

ELMIRE SEBIRE

Fils Aine, at USSY, Calvados, France

Grower and Shipper of NURSERY STOCK
ORNAMENTALS, TREES AND SHRUBS, EVERGREENS, CONIFERS.
Forest Trees for Spring or Fall Shipment. Send for Estimates to our Sole American Agents.

AUGUST RÖLKER & SONS, 31 Barclay Street, NEW YORK, P. O. BOX, 752

Importers of Nursery Stocks, Fruit and Tree Seeds. Also Spring Bulbs. *Price List Mailed on Application.*

When writing to Advertisers mention The National Nurseryman.

LIBRARY
OF THE
UNIVERSITY OF ILLINOIS

The sowing of fruit stock and other seeds from February to April. Barbier & Co., Orléans, France.

MEMBERS OF THE FIRM OF BARBIER & CO., ORLÉANS, FRANCE.

Réne Barbier. Albert Barbier. Leon Barbier. Eugène Barbier. George Barbier.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., OCTOBER, 1906. No. 10.

A GLIMPSE AT A FAMOUS FRENCH NURSERY.

THE NOTED FIRM OF BARBIER & CO., SUCCESSORS TO TRANSON BROTHERS AND D. DAUVESSE'S NURSERIES, ORLÉANS, FRANCE.

FRUIT STOCKS: PROPAGATORS OF ORNAMENTAL TREES AND SHRUBS.

The nurseries of France have been celebrated for two or three centuries past. Fortunately for these interests, they were patronized by that versatile and eccentric monarch, Louis XIV. He established a famous nursery at Chartreuse, near Luxemburg, from which catalogues issued in 1752 are still preserved. At an early date, the French nurseries became noted as producers of fruit stocks and choice ornamentals. These nurserymen secure an important share of the American trade. The following sketch very inadequately describes some of the leading features of the business of a firm which in recent years has enjoyed, to a large degree, the patronage and confidence of the American purchaser.

Packing shed in November. Barbier & Co.

HISTORY OF BARBIER & CO., SUCCESSORS TO TRANSON BROTHERS & D. DAUVESSE'S NURSERIES.

The Barbiers became directly connected with the business in 1863, when Albert Barbier was admitted as the fourteenth man. Eugene Barbier came in as the twenty-first man, in 1865. These men took positions, at first, as foremen in different departments of the nurseries, but later became directors in the company. In 1884, René Barbier, son of Albert Barbier, was taken into the office after an apprenticeship and a period of travel in foreign countries.

The nurseries now owned by Barbier & Co., and founded by the ancestors of Paul and Eugéne Transon and of D. Dauvesse, were reorganized in 1901, when Barbier & Co. bought the business of Dauvesse.

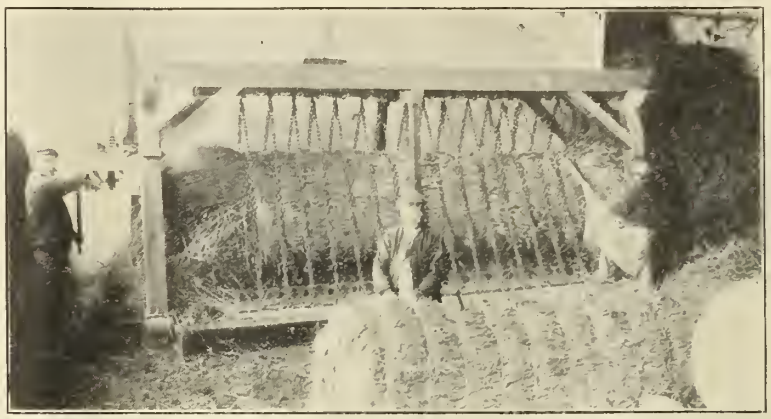
The original firms constituted small, distinct nurseries, until the middle of the last century, since which time they have yearly increased in size and importance. In 1855, P. and E. Transon only employed six men, and Dauvesse about forty.

The Transon brothers, P. and E., travelled through Europe and worked in the most important nurseries of Europe during their younger days. In the countries they visited they noted that young stocks, such as the seedling plants, cuttings, grafts, wanted for nursery planting were, of necessity, grown under glass, and thus produced at a relatively high cost. When they returned home they devoted themselves to the propagation of this class of nursery stock, which, owing to the exceptionally favorable conditions of soil and climate of Orléans, they found themselves in a position to grow at cheaper prices than they were offered by their competitors in European countries. After establishing a home market, they then added to their local and French trade by the exportation of the small plants to distant lands.

Monsieur D. Dauvesse, who was an enthusiastic collector of new and rare plants, added to his business this specialty, and became a noted collector of international fame. His collections covered all parts of the world. He

was one of the first nurserymen, if not the first, who grew on a large scale and distributed, Deutzia crenata, candidissima and D. crenata fl. pleno rosea, Acer negundo variegata, and many other beautiful trees and shrubs. In this way the firms of Transon Brothers and the Dauvesses soon occupied a most important place among the nurseries of Europe.

In 1892, the Barbiers bought the Transon business which, from 1892 to 1898, was conducted under the name of Barbier Brothers & Son. At that time Léon Barbier, younger son of A. Barbier, was admitted as a partner, on his return from Europe, and the name of the firm was changed to Barbier & Co. George Barbier, son of Eugéne Barbier, joined the business last season, after having studied and worked in England and Germany.



Machine for making large bales. The bale placed on the machine weighed 1200 lbs.

Men layering snowballs, nuts and cut leaved alders.

Packing machines, Barbier & Co., Orléans, France.

SPECIALTIES.

The specialties of Barbier & Co. are the culture and propagation of fruit tree stocks, ornamental trees, shrubs and roses. Their assortment comprises: 400 varieties of conifers, 1,600 varieties of ornamental trees and shrubs, 250 varieties of climbers, 450 varieties of perennials, 800 varieties of roses, grafted and budded, and all sorts of hardy new plants.

Besides these, they grow especially for their European trade more than 1,200 varieties of old and new kinds of fruit trees.

The photo of a part of the nursery where the soft-wooded cuttings are being rooted under the bell-glasses, gives an idea of the importance and the extent of this type of culture. Barbier & Co. use more than 8,000 of these glasses. They are employed at three different times of the year: In the spring, for the grafting of ornamental trees and shrubs, such as brooms, privets, conifers, etc.; in the summer, for the soft wood cuttings, and in the autumn for grafts and cuttings of trees, shrubs, roses, etc. There are fifteen to twenty men employed the whole year, in this department devoted to the propagation of shrubs and small growing ornamentals.

Besides the young ornamental trees and shrubs, immense quantities of large trained plants, such as feathered trees, pyramids, standards five to twelve feet high are grown, as well as conifers one to four feet high, and fruit trees of all forms and sizes.

The propagation of the varieties is personally supervised by the members of the company, who are all practical men, in order to keep the numerous sorts true to name and avoid mixing.

PACKING AND HANDLING.

The packing of plants has the best possible attention. Whether the goods are sent to the neighborhood or to America, Australia, or Africa, the packing is done with the greatest care. For these latter countries the wooden cases are paper-lined in order to prevent evaporation by the passing of the air through the boards. This perfect insulation prevents the plants from being dried by the heat when the cases travel in hot countries, or the probability of being damaged by the frost they sometimes have to stand when they are shipped from the nursery to cold regions.

SPECIAL DEVICES FOR PACKING.

To have the goods packed as tight as possible, to check the drying and to save cost of packing and carriage, Barbier & Co. use a special press of their own invention, as shown in the photograph immediately above.

In the same photograph, and in one at the top of the page, machines for making large bales are to be seen. The bales made with these machines are sent freely to the European countries, but rarely to America, unless an order of very large trees cannot be placed in boxes, in which case they can thus be packed in the bales without any fear of damage.

LABOR.

In the busy season 300 men are employed in the nurseries. This is no handkerchief patch, for it comprises 420 acres devoted to the raising of nursery stock.

The Messrs. Barbier are glad to see visitors from this side, and they wish American nurserymen, traveling through Europe, to understand that they will always be welcome. Not only will the grounds be open, but one of the members of the firm will take pleasure in showing tourists the various features of the nursery, and giving all desired information regarding propagating methods.

GINSENG IN CHINA.

Recent consular reports give some interesting facts relating to the commercial phases of this industry in China. Consul Haynes, writing from Nanking, believes that there is no doubt that ginseng has curative properties, and that whatever this medicinal property may be it can be safely believed that it will take many generations, perhaps an eternity, to shake the Chinaman's implicit faith in this mysterious, time-honored cure-all. The consul further states that in China there is no discrimination made between the cultivated and the wild American product. It is all classed as west ocean, foreign or western country ginseng. The color and shape have much to do with the fixing of the price. The price per pound of the dry Korean product varies from $30.00 to $35.00 per pound in gold.

WHITE'S CLASS ADVERTISING.

The July issue of *White's Class Advertising* is a nursery number and is devoted in considerable detail to the Dallas convention of the American Association of Nurserymen.

Planting gratted lilacs under bell-glasses. Barbier & Co.

NEWSPAPER STATISTICS.

Nearly every one has some notion of the tremendous extent and great variety of the periodical publications of this country. Few, however, realize the extent of the enterprise For instance, there are over 2,500 daily papers devoted to the retailing of news. The amount of capital invested in this phase of publication is enormous. Some of our great city papers cost more than a million dollars a year. The expenses of several daily American newspapers exceed $4,000,000 a year, or $10,000 a day. Over 100,000 persons are employed on American newspapers, and over a million are supported directly and indirectly by the newspaper industry. The total receipts of newspaper publishers for 1900 are given at $175.000,000, and the total copies of newspapers and periodicals issued in this country in the last few years amounted to over 8,000,000, or over 100 copies for each man, woman and child.

A great field of bell-glasses, or as often called in America, bell-jars, under which the soft wooded cuttings and grafted plants are set, seen in the extensive propagating grounds of Barbier & Co., Orléans, France.

Note and Comment.

BURBANKIANA.

The flood of literary exploitation which has recently marked periodical literature in reference to Burbank's work, has awakened a storm of protest, and in some quarters ridicule, on the part of our European horticulturists and writers. The editor of the *Journal of Horticulture and Home Farming* has the following to say, in commenting on a communication by Mr. E. T. Cook, editor of the *English Garden*, in the *Daily Mail* of June 29th:

"Burbank has 'created more new plant life, fruits, grasses, trees and flowers than any other man who ever lived.' Very American that, truly! There are several British horticulturists whose amusement it is at present to collect the outrageous statements that are increasingly current about the work of Mr. L. Burbank. Some day, when Mr. Burbank's 'creations' have been forgotten by the Grub Street writers, these collectors of Burbankiana will have a marvelous compote of fiction to unfold. Talk of the credulity of the Dark Ages, forsooth! But seemingly the world of plant life and of horticulture is the one that is least known to the editors of general newspapers, else would they reject the many perversions of fact that almost daily appear from their 'own correspondents,' and from the pens of the hack writers. Should anything of unusual interest occur or be discovered in other domains of enterprise, an expert or someone of name and standing in the calling or profession, is usually consulted, so that no extravagant statement may appear, or appear without a qualification; but, as we too often see, the statements of horticultural absurdities are allowed to pass. Even if they are contradicted time and again by the specialistic Press, the fictions do not immediately fail. And even if a letter be specially written to a newspaper, pointing out the facts, the correspondent cannot always rely upon its being inserted. For this reason we congratulate the *Daily Mail* upon its impartiality in inserting the letter from Mr. Cook. When Mr. Burbank, or any other 'inventor' of new fruits and vegetables, has something better to offer to British horticulturists than they at present possess, the reward and the praise will be forthcoming from the proper quarters."

In the foreground, workmen grafting new roses; in the background, propagators grafting variegated privets. Barbier & Co., Orleans, France.

This whole incident in plant-growing is much to be regretted. It is a pity that the reputation which Americans have obtained, justly or unjustly, in certain lines, for tooting their own horns, should be also associated with the progress of the new world in the great field of plant production.

PRUNING VIEWED FROM A GEOGRAPHICAL STANDPOINT.

At the outset I would make myself clear in the statement that pruning is not a rule of thumb process. It is true that there are some fundamental principles involved which enter into the work wherever practiced, giving a similarity in the practical phases. We understand that pruning during the dormant season increases the vegetative growth. This is a matter of common observation and may be easily verified by a simple experiment. We have also been told, and probably our experience has substantiated the statement, that pruning in summer may decrease vegetative activity, and on the other hand promote the development of fruit buds. These two forces, the vegetative on one side and the reproductive on the other, are in a measure antagonistic to each other. In other words, it is necessary that they should be in a state of equilibrium, in order that the tree may give a reasonable amount of fruit and at the same time add sufficiently to its stature. Summer pruning, then, tends to check vegetative activity and stimulate the development of fruit buds, while winter pruning may be expected to increase growth.

Pruning is also a matter to be studied carefully in connection with climatic peculiarities. It is, in a measure, to be regulated by the special conditions of climate and soil which prevail in each region. Fundamentally, it is largely dependent upon the amount of light prevailing in the region. In this matter of the diffusion of atmospheric light there are great contrasts, as one travels across the country. In the comparatively foggy regions of the east the pruner finds it necessary to keep the heads of his fruit trees relatively open, so that the sun may find access to the inner parts. In the central west, where the sun's rays are much stronger, the orchardist finds it desirable to restrict the amount of light which falls within the head of the tree, and does this by maintaining a close-headed top. As we go farther west to the Pacific coast, this condition reaches a climax. There we find the orange trees with the closest possible heads, so maintained in the interest of the main stems and larger branches. Here absolute production is needed.

In view of these conditions, it is fair to say that no rigid rules may be laid down for the pruning of fruit trees, unless we qualify these rules by the introduction of the geographical factor. The tree is plastic to a considerable extent, it is true, and while the broad principles outlined above may be kept in mind, the climatic limitations must also be carefully studied. J. C.

Correspondence.

AN OPPORTUNITY IN THE SOUTHWEST.

EDITOR NATIONAL NURSERYMAN:

Do you know of an experienced nurseryman, able to undertake the establishment of a new nursery business, who would like to come west? If so, I think such a man could find an excellent opening in this locality. The Federal government is beginning the construction of a storage dam on the Rio Grande which will furnish irrigation water for about 180,000 acres and will cost some $7,000,000. Over half of this area lies in Donna Ana county, New Mexico, of which Las Cruces is the county seat. This land is well adapted to fruit-growing, especially to apples, pears and peaches, as well as to many kinds of early vegetables. A large amount of tree-planting will be done here within the next few years, but so far there is no nursery in the entire district. I consider it an excellent opportunity for an enterprising man, trained to this business, who for financial or for climatic reasons desires to make a change.

There will be a very large development in this region within the next few years, and especially so in horticultural matters, and there will be a large demand for nursery stock of all kinds. The soil is extremely rich and productive, and land values are sure to advance rapidly in the immediate future.

I have no personal interest in this matter other than a general interest in the advancement of the valley, and as the owner of some 8,000 acres of land, on a part of which I wish to plant orchards.

Las Cruces is a town of some 3,500 people, at an altitude of about 4,000 feet, with an excellent climate both in winter and summer.

I shall be pleased to give further information to anyone interested in the subject.

Yours truly,
F. M. GALLAHER.

Las Cruces, N. Mex.

NEW LIGHT ON OKLAHOMA FRUIT TREE LAW—LAW STILL IN FORCE, SAY STATE AUTHORITIES.

EDITOR NATIONAL NURSERYMAN:

We note in your August issue an item headed "Oklahoma Fruit Tree Law Declared Unconstitutional," which was clipped from an Oklahoma paper. Shortly after the case in question was tried, we wrote Secretary C. A. McNabb regarding it, and we enclose you his reply, which seems to throw a different light upon the matter and leaves the law yet in force.

We call your attention to this matter, as we fear the article in your August issue may prove misleading to some nurserymen.

COOPER & MONCRIEF.

Winfield, Kan.

Guthrie, Okla., May 11, 1906.

COOPER & MONCRIEF,
Winfield, Kan.

Gentlemen:—Replying to your favor of the 10th inst., will say that, in common with some other nurserymen, you seem to have the impression that our nursery law is inoperative at the present time. Allow me to explain. The suit of the Territory against Vines is one growing out of our action against the J. M. T. Wright Nursery Co., of Portland, Indiana, who sought by all means, both fair and foul, to override the decision of our Board in refusing them permit to do business in Oklahoma. They shipped a batch of trees from Portland, Indiana, to Shamrock, Texas, which is just across the line from northwestern Greer county. The freight was unloaded at that point and hauled into Oklahoma by wagon, and an attempt made to deliver it was partially successful. Vines was the representative of the J. M. T. Wright people, and as we were on the lookout for something of that character to turn up, he was promptly arrested, and in due course of time his case was called for trial in the probate court of Greer county, Judge Todd presiding. Judge Todd had, no doubt, read of the famous decision by some western Oklahoma probate judge, wherein he declared the cattle tick quarantine regulations or law unconstitutional, and evidently looked upon decisions of this character as adding to popularity of probate judges who might be bidding for votes. While it is true that he, in his wisdom, declared the law unconstitutional, it was done so in face of the fact that the attorney for the defense did not, nor could not, cite a single decision in support of his contention, while, on the other hand, the attorneys for the Territory cited numerous decisions in support of the constitutionality of the law. It is needless to say, perhaps, that promptly on hearing his decision a new action was begun against the plaintiff in the district court, and warrant was served on him before he had time to leave the county seat, and he is now under bond for his appearance and the case will be tried before a legal tribunal, whose decision in the matter would have no bearing nor influence with the exercise of the suffrage of the people of that county. The law is now in the same force and effect as it has been since its enactment, and will continue to be so, not only with a part of the nurseries, but with all of them, until the supreme court of Oklahoma decides it to be unconstitutional, or it is repealed by a future legislative body.

Trusting the explanation may put a new light upon the matter for you, I am,

Yours truly,
C. A. MCNABB,
Sec'y Board of Agriculture.

THE FLORISTS.

The Society of American Florists and Ornamental Horticulturists met at Dayton, August 21st to 24th and transacted a considerable amount of business. The meeting was very successful. The officers for 1907 are W. J. Stewart, president; John Westcott, vice-president; P. J. Hausworth, secretary; H. B. Beatty, treasurer. The convention will meet in 1907, in Philadelphia.

The National Nurseryman

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AMERICAN ASSOCIATION OF NURSERYMEN.

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Program—Judge Eugene Stark, Louisiana, Mo.; Chas. J. Brown, Rochester, N. Y.; Herbert S. Chase, Huntsville, Ala.
Publicity—J. M. Irvine, St. Joseph, Mo.; John C. Chase, Derry, N. H.; H. D. Simpson, Vincennes, Ind.
Exhibits—Thos. Meehan, Dreshertown, Pa.; H. P. Kelsey, Salem, Mass; E. P. Bernardin, Parsons, Kans.; J. Woodward Manning, Reading, Pa.; Henry Chase, Huntsville, Ala.
Horticulture—Chas. J. Maloy, Rochester, N. Y.; Chas T. Smith, Concord, Ga.
Arrangements—Chas. A. Ilgenfritz, Monroe, Mich.; Chas. Greening, Monroe, Mich.; Geo. S. Josselyn, Fredonia, N. Y.; Nelson Bogue, Batavia, N. Y.; John B. Morey, Dansville, N. Y.
Editing Report—J. Horace McFarland, Harrisburg, Pa.; O. G. Chase, Geneva, N. Y.; Geo. C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

American Nurserymen's Protective Association—President, R. C. Berckmans, Augusta, Ga.; vice-president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

Nurserymen's Mutual Protective Association—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

American Retail Nurserymen's Protective Association—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

Eastern Association of Nurserymen—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

Western Association of Wholesale Nurserymen—President, Peter Youngers, Geneva, Nebraska; vice-president, A. Willis, Ottawa, Kansas; secretary, E. J. Holman, Leavenworth, Kansas.

Southern Nurserymen's Association—President, John A. Young, Greensboro, N. C.; vice-president, C. N. Griffing, Jacksonville, Fla; secretary-treasurer, Chas. T. Smith, Concord, Ga. The next meeting will be held in Richmond, Va. August, 1907.

Southwestern Nurserymen's Association—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

Texas Nurserymen's Association—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

Pacific Coast Association of Nurserymen—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Tomeson, Tacoma, Wash. Meets annually in June.

Pennsylvania Nurserymen's Association—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

National Association of Retail Nurserymen—President, William Pitkin, Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

PRESIDENT HARRISON'S APPOINTMENTS.

It is pleasing to be able to say that the general feeling is, that President Harrison has exercised excellent judgment in selecting the committees who are to do the work of the society during the present year. The committees, as reported in our August issue, have been chosen, not only for their personal fitness for the work entrusted to them, but with due regard to proper geographical representation.

Mr. Harrison would like it thoroughly understood that the chairmen of the committees are the responsible men and completely charged with the special duty. The additional members are co-operators. Plans are already maturing for the Detroit meeting, which the president of the American Association of Nurserymen wishes to eclipse all others from the standpoint of a business conference.

THE SPENCER SEEDLESS APPLE.

This novelty is receiving a large amount of advertising, both by the men who are backing it and the men who are opposing it. The *Rural New Yorker* has consistently, and after an apparently careful investigation of the facts relating to its history and merits, waged a campaign against its introduction. The last development in the case appears to be that it was not a direct origination at the hands of Mr. Spencer, as claimed by the introducer, but an old variety rediscovered.

The *Rural New Yorker* has made persistent appeals to Mr. Spencer to give the public information as to its origin, but the supposed originator maintains a sphinx-like silence. We are dead against any variety of apple, or other fruit being forced upon the public, without any government official or national pomological society having had an opportunity to pass upon the merits of tree and fruit.

CAMPAIGN AGAINST FREE SEED.

To anyone who has followed the reports of the various horticultural and agricultural associations for the past two years, the one thing which will stand out with striking clearness in the proceedings of all these organizations, is the unanimity with which they oppose the congressional free seed distribution. This view is taken not only by the seed trade association, the florists and others engaged in the selling of seeds, but by the purchasers of seeds, making up the rank and file of farmers and fruit growers.

While the distribution of these seeds amounts to comparatively little when viewed in the light of the country's appropriation for its maintenance, the practice does constitute a real misuse of public money. There is no more reason why a farmer should be supplied with seeds for his garden than that a manufacturer should be supplied with the raw material for his factory. If the money thus expended were devoted to the carrying on of experiments, designed to solve problems now confronting the tiller of the soil, the money would be returned one hundred fold within a short time. All those having interest in the proper expenditure of public moneys should write their

Washington representative asking him to use his influence against the granting of an appropriation for the purpose of buying or growing seed for free distribution.

ELECTRICITY IN HORTICULTURE.

Electricity as an illuminant has been used for a number of years in the growing of plants under glass. The application of this force to field crops is a newer and more recent innovation. In this respect our English friends are considerably ahead of American farmers.

There are experiments now being carried on at Bevington, Evesham, England, in which 12½ acres of wheat, 6½ acres of barley, and one-half acre of potatoes have been subjected to the influence of what might be called concentrated atmospheric electricity. The area is covered with a network of wires fifteen feet above the ground, supported on poles furnished with insulators. This network is charged by using an induction coil which maintains a high, continuous current. At last reports, the crop under this experiment promised to be much heavier than those not treated. Little difference in the time of ripening was noticed. The question of whether it will pay or not can hardly be answered at the present moment, but we shall all look forward to the results of the experiment with much interest.

DRY WEATHER IN THE EAST.

The season has been one of marked contrasts in the matter of rainfall. Certain sections were almost drowned, while other regions, comparatively near, were parched. The early part of summer found Maine and parts of New England very wet, while western New York and the Niagara section suffered a drought. In late summer the dry area extended to central and eastern New York, and towards the end of August, trees and shrubs in this region suffered severely. Of course, wherever the crop was subject to the influence of the cultivator, the severity of the drought was greatly modified, but sodded areas were considerably affected. There are but few situations which do not carry their compensations, however. It must be remembered that dryness is an important factor in ripening wood and preparing trees for winter. This is first-rate up to a certain point, but over-dryness will devitalize and weaken plants so that they are unfit to withstand the severities of winter. Under conditions of this kind, winter injury is a natural consequence.

THE EXPORT OF APPLES.

A very instructive chart depicting the export of apples from 1880 to 1905 has been published by W. N. White & Co., of New York city. It is very interesting to note the fluctuations which have occurred in the trade during that period. We are surprised to learn that as many as 1,328,806 barrels of apples were exported in the season of 1880 and 1881. The very next year, however only 239,252 barrels found their way from United States and Canada to foreign ports, and in 1883 the export amounted to only 81,532 barrels. The largest export of apples ever shipped from this country occurred in 1903-04, when 3,505,334 barrels were shipped to the ports of Liverpool, London, Glasgow, Hamburg, and various smaller places.

It is also interesting to note that the shipment of boxed apples began in 1895-96. In that season 13,610 were shipped from the port of New York, while Montreal sent 1,861 boxes. The box trade has steadily increased. Last year there were shipped from New York 416,266 boxes of apples. It should be stated that these boxes are counted with the barrels above, three boxes being reckoned to one barrel. What the present year will bring forth in the way of apple shipment, we are unable to prophesy. Reports indicate that the European crops are small, and that the American crop greatly exceeds that of last year. Therefore, shipments ought to approximate the highest record made thus far.

THE SCALE SITUATION.

The question raised in the last issue of the NATIONAL NURSERYMAN by the letter of Greening Bros., is one that should be constantly agitated. No person who has not visited a scale-infested region and has not observed the steady persistent spread of the insect, can realize the dangerous character of this enemy. We are not one of those who are disposed to view this invasion as a blessing in disguise. On the contrary, we believe it to be an unmistakable misfortune.

The problem varies with different classes of fruits. For instance, with peaches, plums, dwarf pears and fruits of this class which are annually headed back, of medium size, and comparatively short-lived, it is to be regarded as a controllable difficulty. With a half-century old eastern apple orchard, however, we meet an entirely different proposition. Here, the question is not how to save the trees, but how to save the fruit, and this phase of the problem is pressing hard upon some orchardists in the East at the present time; and the solution has not been discovered. It is not a difficult matter to restrain the scale sufficiently so that the health of the adult apple tree is not seriously impaired, but the insects, despite careful spraying, cluster at the extremities and gather on the fruit to such an extent as to render it unsalable. There are many cases where large crops of apples are practically unmarketable on this account.

The question then arises, "Shall we start over again and grow smaller trees, which can be better protected, or shall we, in peach-growing districts where scale flourishes, leave the growing of apples to orchardists in northern regions, where climatic conditions suppress the enemy?" The difficulty, then, bears more heavily upon apple growers in the peach section than upon the growers of other classes of fruits.

Here is an opportunity to encourage the planter by giving him instances of actual experiences in combatting this insect. Our columns are open for a recital of the latest on the subject. We want the real thing. Influence and speculation are not solicited. Let us have a full discussion.

THE AMERICAN POMOLOGICAL SOCIETY.

The report of the last convention of this honorable body of amateur and commercial fruit growers is off the press and being distributed. Like its predecessors, it contains much information of interest to the practical fruit grower and the professional horticulturist.

The systematic pomologist finds the latest on scoring fruits; the historian finds a valuable chapter on the practice of horticulture in several States of the middle and southwest. Nowhere else can the commercial fruit grower find so faithful a record of the development of the various phases of the industry in all parts of the United States and Canada, as is given in the symposium presented by the general committee of this society.

The Kansas City convention was a great success; the valuable discussions are fully recorded, and the papers carefully presented with suitable illustrations. This volume forms the report of the 29th biennial session, and it may be obtained from the secretary, John Craig, Ithaca, N. Y., or the treasurer, L. R. Taft, Agricultural College, Michigan.

Obituary.

On June 3d, at Parksville, Mo., Mr. George D. Shumaker, proprietor of the Shumaker Nurseries. Mr. Shumaker was for many years a member of the National Nurseryman circle. The business will be closed out as soon as practicable by his widow.

C. M. Heintz, editor and general manager of the *Rural Californian*, died at Los Angeles on Sept. 5th. Deceased was a prominent man among fruit growers of California. His loss both in the newspaper world and the pomological field will be keenly felt.

A DELAWARE NURSERYMAN.

Ransford S. Johnston died August 26th, 1906, at his home near Stockley, Del. He was born at Gibson, Susq. Co., Penn., July 9, 1836. His early education was in the public schools of his native state and his preparations for college at the Academy at Hartford, Pa. He entered University of Michigan in the fall of 1857 from Great Ben, Pa. He was graduated, B. S. June, 1861. After leaving the University in 1861, he taught school two winters and in 1862, he commenced the study of medicine and attended one course of medicine lectures at Ann Arbor. In the spring of 1864, he moved to Delaware to assist in a real estate office intending to return to Ann Arbor in the fall to finish his medicine course, but before the time came he decided to remain permanently in Delaware. In 1865, he bought land and planted peach orchards. In the spring of 1868, he started a nursery of fruit trees at Stockley, Del., which has been his home ever since, remaining continuously in the nursery business. He was proprietor of the Sussex nursery embracing 300 acres. Mr. Johnston has been prominently identified with the grange and the Peninsula Horticultural society of Delaware. He was married in 1872 to Miss Barbara Stockel and they have had four children. His wife and two children survive him.—*Sussex Journal.*

ROGER O'MARA.

The death of Mr. O'Mara removes a very important figure from the floricultural world. He was the senior employee in the firm of Peter Henderson & Co., and died on August 18th, after a brief illness. He was born in Ireland 58 years ago and entered the employ of the late Peter Henderson in 1863. Mr. O'Mara had special charge of the sales end of the cut-flower department. He possessed a genial personality, and his presence was always in demand at floral conventions.

Doings of Societies.

ONTARIO CO. (NEW YORK) FRUIT GROWERS ORGANIZE.

CANANDAIGUA, SEPT. 14.

The Ontario County Fruit Grower's Association was formed here to-day at the Court House by an enthusiastic gathering of fruit farmers. The officers of the new association are: President, C. S. Wilson, Halls; vice-president, A. B. Katkamier, Farmington; secretary, Joel A. Page, Seneca; treasurer, Frank A. Salisbury, Phelps; executive committee, Clarence T. Ottley, Seneca; A. Mapes, Hopewell; J. B. Coville, Naples.

The meeting was convened in the forenoon at 10 o'clock, by Charles S. Wilson, of Cornell Agricultural College, who is a son of T. B. Wilson, of Hall's, the president of the State Fruit Growers' Association. On his motion, Frank Salisbury, of Phelps, was made the chairman and H. L. Howe, of Canandaigua, who is master of the local grange, was elected secretary.

The forenoon was devoted to the discussion of the needs of the fruit growers of Ontario county, and a comparison of the natural advantages of this section with that of others which have poorer qualities of fruit to market, but who go at it in a way that makes more profit than is secured by local growers. Emphasis was laid on the selection and packing of fruit for the markets.

John Craig, professor of horticulture at Cornell, held the attention of those present with a very inspiring address in the forenoon, and the address of Professor L. H. Bailey, director of Cornell Agricultural College, in the afternoon, was a rare treat to all present. Director W. H. Jordan, of the Geneva Station, gave a practical and interesting talk, all of these tending to emphasize the need for active co-operation on the part of Ontario county farmers to improve the fruit growing and the profits therefrom by scientific methods. Information blanks, preliminary to the proposed orchard survey work, were distributed.—*Democrat and Chronicle.*

ONTARIO FRUIT GROWERS CO-OPERATE IN SELLING PRODUCT.

There was organized in Toronto, on August 14th, an association called The Toronto Co-operative Fruit Growers' Association. The objects of this association are exclusively commercial in character. It aims to collect and disseminate information regarding fruit conditions, both in domestic and foreign markets. It expects to co-operate with the provincial Fruit Growers' Association in the formation of additional local societies and in general educational work. It also aims to standardize grades of fruit and strengthen the hands of the officers of the fruit division at Ottawa.

Officers: President, A. E. Sherrington, Walkerton; first vice-president, D. Johnson, Forest; second vice-president, W. H. Dempsey, Trenton; secretary and treasurer, A. B. Cutting, 507 Manning Chambers, Toronto.

NEW YORK STATE FRUIT GROWERS.

The New York State Society met at Fredonia, August 30th and 31st. This marked the fourth annual summer meeting of this society. The meeting was altogether successful in point of numbers, and interesting from the standpoint of subjects discussed. Among the topics of prime interest were spray injuries, "little peach" and black rot of the grape. The New York Experiment Station has been investigating spray injuries, but has come to no conclusions regarding a sure method of avoiding the injury. Copper sulphate seems to be the injurious agent. On the whole, however, the amount of injury caused by spraying is believed to be very much less than the destruction which would be caused by plant diseases if spraying were abandoned. The meeting concluded with a drive through the vineyards, and a visit to the famous wine cellars of Brockton and Portland.

AMERICAN CIVIC ASSOCIATION.

This national association will hold its meeting for 1906 in the city of Milwaukee the last week in October. The session will continue for three days, beginning with Wednesday morning. A programme of great interest will be presented. All those who are interested in civic improvement work should make it a point to attend the meeting.

Our Book Table.

"Dwarf Fruit Trees," by F. A. Waugh, professor of horticulture and landscape gardening, Massachusetts Agricultural College. Illustrated, 125 pages, 5 x 7 inches, Cloth. Price postpaid, 50 cents. Published by Orange Judd Company, New York.

This book aims to stimulate the planting of dwarf fruit trees. At the present juncture, there are several good reasons why more attention should be given to this type of tree. In all peach-growing sections, the San José scale is an ever-present menace. In sections where apples are grown along side of peach trees, and where the orchards are old, the control of the scale is a serious problem. Secondly, the suburbanite with a small plot of ground wishes as many classes of fruit in his home area as possible. He can accomplish his desires much better by using dwarfs than by using standards. For these reasons, a book setting forth the methods of growing, of training, and giving the general management of dwarf fruit trees, is timely. Such a book is the above. It is not complete in all its details, but it is bound to be a great help to the man who is interested in this phase of fruit-growing. Like all of the efforts of this author, the book will be read with interest. It is not dull or heavy. We take pleasure in commending it to the fruit-growing, fruit-loving public.

ROBERT A. SIMPSON,
of the firm of H. M. Simpson & Sons, Vincennes, Ind.

The above photo was taken while he was serving in the Spanish War, as Captain of Co. L, 159th Regt. of Indiana.

NATIONAL NURSERYMAN AS A NEWS MEDIUM.

THE NATIONAL NURSERYMAN :

In renewing our subscription let me say that we would miss the NATIONAL NURSERYMAN very much should it fail to come. We appreciate it and would feel lost without it.

Yours truly,

Abilene, Kansas. W. T. GOUGH.

NATIONAL NURSERYMAN, Newark, N. Y.
Rochester, N. Y.

GENTLEMEN:

Run same matter in our October space; too busy booking orders down here to write advertisements right now. Thank you for reminding us. Yours truly,

JW-B JACKSON & PERKINS CO.

The Willis Nurseries, Ottawa, Kansas, report a heavy season's business.

A sample of one-year old cherries grown by H. M. Simpson & Sons, Vincinnes, Ind.

JOIN A WORTHY ASSOCIATION.

Our Association bids fair to increase in membership and usefulness. Every generously inclined member should aid in encouraging our people to learn the art of propagating and growing nut trees. Nut growing is destined to bring more wealth and happiness to the South than every other industry. In the cause of this special line of horticulture, let us appeal to every person who has succeeded in growing nut trees to join our Association, and contribute their mite to the common store of knowledge of this art of propagating and growing nuts.

The world is calling for these delicious fruits, so well adapted to our soil and climate, and our people are famishing for knowledge to aid in growing them.

All who wish to contribute to the general prosperity of the most favored people on earth should cast their lot in this engaging work, become members of the Association by sending two dollars to the Secretary-Treasurer, Dr. J. F. Wilson, at Poulan, Ga., and as far as practicable, attend the session of our fifth annual convention at Scranton, Miss., October 31st to November 2nd, 1906.

E. W. KIRKPATRICK,
President.

The following leading nurserymen called on Western New York and Rochester nurserymen the last days of September : E. Albertson, of Albertson & Hobbs, Bridgeport, Ind. ; J. H. Dayton, of the Storrs & Harrison Co., Painesville, Ohio ; W. H. Wyman, of Bay State Nursery, North Abington, Mass. ; Thomas B. Meehan, of Thomas Meehan & Sons, Inc., Dreshertown, Montgomery Co., Pa.

The Willis Nurseries of Ottawa, Kansas, have added to their equipment by the erection of a new packing house of large dimensions. Mr. Willis made a trip to New York in the latter part of the summer.

The Boonville Nurseries, Boonville, Mo. Peyton & Barnes, Proprs., are laying plans for the establishment of an extensive wholesale trade in the near future.

Among the Experiment Station Workers

ONTARIO ESTABLISHES FRUIT STATION.

The Department of Agriculture of the Province of Ontario has established a fruit experiment station in the heart of the Canadian-Niagara District. The farm was given to the government and on this the experiment station has been located. It is the purpose of the government to test fruit, study orchard management in all its phases and do everything possible to promote fruit interests in that part of the country. No appointments have been made thus far, but the public statement is that the best man available in the country will be given the directorship. We wish the new institution every success.

VARIOUS INSECTICIDES FOR SCALE.

Illinois Bulletin, 107. Ten or a dozen scale mixtures were made and tested. The outcome of all the experiments was that chief and most efficient of the mixtures used is the one now generally recommended, namely, lime and sulphur without either salt or vitriol, and made by boiling together. This mixture costs practically one cent per gallon. The experiments also demonstrated that applications of the mixture made in January were about half as efficient as applications of the same mixture made in March.

PLUM-CURCULIO.

Illinois Bulletin, 108. The entomologist of this station, S. A. Forbes, finds that trees sprayed with arsenate of lead yield 54 per cent. more apples than those unsprayed; that the fruit was 21 per cent. larger on the sprayed trees than on the unsprayed; and that 69 per cent. of the apples were saved from curculio injury. Finally, that the value of the crop from the treated trees was nearly three times greater than that from the trees that were not treated. The cost amounted to $.17 per tree. This makes a very satisfactory showing and a strong argument for the use of this insecticide in controlling the plum curculio of apples.

MEADOW MICE IN RELATION TO HORTICULTURE.

The United States Department of Agriculture has issued a circular on the above subject. This discusses the habits and injuries caused by meadow mice quite exhaustively. Among the agencies which encourage the multiplication of this type of orchard enemy are; (*a*) the destruction of hawks, owls, snakes, and small carnivorous mammals; (*b*) the presence of weeds, shrubbery, fences and waste corner material. Among the preventive measures recommended are:

(1) The preservation, both by legislation and individual co-operation, of the natural enemies of mice.

(2) The curtailment of the range of meadow mice by the drainage of swamps and the periodic plowing of grass lands for the rotation of crops.

(3) The destruction, of weeds, trash, and litter of all kinds about farm premises, gardens, and orchards, to prevent meadow mice from obtaining the winter shelter necessary to their survival.

(4) The burning of dead grass in meadows and pastures, to the same end. Care should be taken, however, not to burn the grass in late spring or early summer, when prairie chickens, quail, and other birds that build on the ground are nesting.

The bulletin would have been somewhat more complete had it discussed methods of repairing injury of this kind which had taken place by bridge-grafting and other kinds of tree surgery.

WINTER MEETING OF THE PACIFIC COAST ASSOCIATION OF NURSERYMEN.

"The time and date has now been definitely set, at Hanford, Cal., for December 4th, to 7th," says President Powers. "We expect to have a rousing meeting and a good time at Hanford and any eastern nurserymen who come to the Pacific Coast this winter should make it a point to be at Hanford on December 4th to 7th. This will give a splendid opportunity to become acquainted with the leading nurserymen, horticultural commissioners and fruit growers on the Pacific Coast."

Quiz Column.

WHAT DOES A GUARANTEE MEAN?

EDITOR NATIONAL NURSERYMAN:

A client of ours, in the nursery business, has been sued for damages by a customer on account of a portion of a certain variety of fruit trees turning out untrue to name after they had reached a bearing age. These trees were propagated from stock bought of another nurseryman, which supply stock was evidently mixed. The following is the guarantee published in the firm's general catalogue.

"Guarantee. While we exercise the greatest care to have all trees, shrubs and plants sold by us true to name and free from disease, and hold ourselves prepared to replace, on proper proof, all that may prove to be otherwise, we do not give any warranty, expressed or implied. Any and all goods are sold upon the express condition and understanding that in case any of them prove untrue to label, unhealthy, or otherwise defective, we shall not be held responsible for a greater amount than the original price of the goods.

If goods are not accepted on these conditions, they must be returned at once, and money will be refunded."

There is also printed on their bill-heads the following:

"Our guarantee: We exercise every precaution to have all goods pure, fresh and true to name, but give no further guarantee than those printed in catalogue. If goods are not accepted under these conditions, they must be returned at once, and money will be refunded."

Our client, knowing of your extensive experience and high standing in nursery and horticultural lines, asked us to write you to inquire if in your experience you have occasioned any such trouble, as it is a matter of general interest to the nursery people.

In this case, our client has offered to refund original price paid for the trees or to replace them, which offer has been declined.

Yours truly,

Chicago, Ill. ATTORNEYS.

[Here's an opportunity for an interesting expression of opinion.]

ED.

COW PEA AS GREEN MANURE.

EDITOR NATIONAL NURSERYMAN:

Kindly inform me whether it would be wise to sow cow peas on my land this fall as the ground is getting poor, and would they be troublesome in the spring? How many bushel of peas per acre?

Respectfully yours,

Cincinnati, O. GEO. MAGRIE.

Answer. Our correspondent evidently does not understand the nature and habit of the cow pea. This is an annual plant, and in the vicinity of Cincinnati would be killed by frost before the end of September. Therefore there would be no danger whatever of its becoming troublesome the following year. A more important point is whether it would, when sown as late as suggested, produce a cover that would amount to anything as a manurial crop. In our opinion, it would not; and we believe that rye or Canada peas or winter vetch would be much better for the purpose indicated than cow peas. The cow pea could be sown as late as the first of August and make considerable growth the same season; but if it is to be used later than that, we would not recommend it. Cow pea is ordinarily sown at the rate of a bushel and a half per acre. ED.

NATIONAL NURSERYMAN AS AN ADVERTISING MEDIUM.

THE NATIONAL NURSERYMAN:

Gentlemen—Your journal has shown marked improvement during the past two years and we believe it reaches all of the progressive nurserymen of this country. We want our name therefore before such people continuously; hence we enclose advertisement to run until ordered discontinued commencing with the October issue.

Yours truly,

McHUTCHISON & Co.

The estate of the late John M. Gibson, nurseryman of Creston, Iowa, is in the hands of an administrator.

TOP-WORKING PECANS. WRITER DISAGREES WITH POPULAR ADVICE.

E. E. RISIEN, TEXAS.*

The advice that has lately appeared in print about the ease with which large pecan trees two, three and four feet in diameter can be budded with the choicer varieties and at once become profitable, is sufficiently misleading to make it the duty of some one who knows better to exclaim against it. My twenty years' experience in this line ought to be worth something, and for this reason I say they won't do anything of the kind. For various reasons the handling of such very large trees is a waste of time and labor. One is, the heart-wood is already too old and when cut into commences to decay, sometimes rapidly, from the large wounds that of necessity are made in cutting back so severely. In a few years you will find some trees hollow and generally full of water; they take the dropsy (I call it), their health becomes impaired, the fruit is small and inferior. To some extent, however, there is a remedy and that is to draw off the water (as is the case with the human family). Tap them by boring a hole in the body of the tree where the water is. I have some trees this way that if neglected will accumulate eight and ten feet of water from the rains that run down the body of the tree from above into the hollow made where sawed off. As holes bored into a live tree soon grow over and close up, a good plan is to insert a piece of pipe. This ends the trouble for several years anyway, but as decay goes on another opening will be necessary lower down. Trees that I have treated this way are yielding fairly good crops that otherwise would be worthless. Pecan trees, like everything else, have their best days, and when you see that a tree has seen its best days, don't waste any more time on it, but turn your attention to the more vigorous ones, for they must be vigorous in the stock to perfect the fruit of the choicer varieties. Sometimes it happens that we find a tree not doing well on its own roots, as is the case with the Marechal Neil Rose or the Duchess Pear, etc., but will be greatly improved if grown on a more vigorous stock. The fruit will be a third larger, the yield will also be a third more, and in a given time the growth will surpass the mother tree a third and be longer lived.

This work calls for close observation, for it is not always that there is a congeniality between the stock and the scion, and while it is seldom there is lack of affinity, we have proof that it does occur, because we see some unions that refuse to do any good; they don't start off right, and if compelled to grow together, in some way they are disappointed and generally die back. Sometimes I think we may just as well let them separate as is the case with some married couples. But on the other hand when we see the scion starting off thrifty all will be well. My theory of these exceptions is that there is something lacking in the quality of the sap of the stock. As a plainer illustration of my meaning, we all know how much richer some cows' milk is than others, notwithstanding all may eat the same feed. Just so it appears with a row of trees all grown out of the same piece of ground and all living under the same conditions. Some furnish better sap than others, but just how we are to ascertain which trees furnish the best quality of sap is hard to determine. The limit in size of profitably working over large pecan trees I think to be about eighteen inches in diameter, and for a detailed account of how I do the work I refer to a treatise now obtained for the asking by addressing a letter to Prof. E. J. Kyle, College Station, Texas. Pecan culture is like everything else; there are those who succeed and those who fail. This industry cannot be dreamed out—it must be worked out, and while this language is a flat contradiction to some writers, it is a fact just the same. We hope to see less in print about "get rich quick" and "stay rich" when writing about pecans; neither do we think that it is the thing to do to advise any one already busily engaged in producing the staff of life to quit it and raise pecans. We can live without pecans. President Roosevelt said the greatest need to-day was more common sense, more courage and more honesty.

EDITOR NATIONAL NURSERYMAN:

Your paper is always a welcome guest to us.

Yours, W. L. KILLIAN & SON.

*Read at the recent Fruit Growers' Convention, College Station, Texas.

Personal and General.

Wm. H. Moon, of Pennsylvania, visited nurserymen in Rochester late in August. He reports a favorable season with rather much dry weather in spots.

Mr. and Mrs. Henry B. Chase, of Huntsville, Ala., summered in Maine and visited points in Rochester on their way south.

Goosens & Hellemons, of Holland, represented by August Roelker & Sons, New York, have recently purchased the extensive nurseries of C. Eschweiler, Oudenbosch, Holland. American patrons will correspond with Messrs. Roelker.

WITH OUR BEST WISHES.

Mr. and Mrs. John Carroll Chase announce the marriage of their daughter Carolyn Louise to Dr Raffaele Lorini, on Saturday, August the 25th, 1906, Derry, New Hampshire. At home after November 1st, Hotel del Coronado, Coronado, Cal.

JEWELL NURSERY COMPANY ENLARGES.

Owing to a largely increased business, the Jewell Nursery Company, of Lake City, Minnesota, have recently reincorporated, increasing their capital stock from $100,000.00 to $500,000.00.

This company controls twelve hundred acres of land; six hundred or more being planted to nursery stock.

J. VAN LINDLEY NURSERY CO., INCREASES STORAGE CAPACITY.

The above well-known firm of Pomona, N. C., has greatly added to its stock-handling facilities by erecting a storage house 100 x 200 feet. The season has been a good average one as to sales, with rather too much rain for growing purposes. A heavy hail storm damaged their extensive greenhouse ranges severely during the latter part of June.

INVALUABLE TO NURSERYMEN.

PONTIAC, MICH., Sept. 3, 1906.

THE NATIONAL NURSERYMAN PUB. CO., INC.,

Please find enclosed $1.00 for my subscription for another year. I wish you to consider me a permanent subscriber as I value your paper very much and cannot see how any nurseryman can get along without it. Yours truly,

T. D. BUCHANAN.

Catalogues Received.

Giles County Nursery, Pulaski, Tenn.; circulars giving wholesale prices.

Fruitland Nurseries, Augusta, Ga.; catalogue handsomely illustrated, 1906-7.

Mount Hope Nurseries, Ellwanger & Barry, Rochester, N. Y. Wholesale Trade List, Fall 1906.

Pan Handle Nurseries, J. K. Henby & Son, Greenfield, Ind. Wholesale Catalogue, Fall 1906.

Shatemuc Nurseries, Barryton, Dutcheston, N. Y.; a very neat folder cataloging a list of bedding and herbaceous plants suitable for autumn planting.

Samuel Cooper, Delevan, N. Y.; circular setting forth the merits of the Pan-American strawberry.

The Reading Nurseries, Reading, Mass.; Peony circular.

Vick & Hill Co., Rochester, N. Y.; wholesale price list, perennials and bulbs.

Bay State Nurseries, North Abington, Mass.; catalogue of herbaceous perennials and autumn plants.

Winfield Nurseries, Winfield, Kans.; wholesale price list for nurseryman.

J. G. Harrison & Sons, Berlin, Ind.; an aptly illustrated pamphlet of thirty pages, describing the varieties of trees offered and methods of shipping and packing practised by this wide-awake firm.

TRANSPORTATION.

IOWA STATE RAILWAY COMMISSION ADOPTS WESTERN CLASSIFICATION.

EDITOR NATIONAL NURSERYMAN:

We are pleased to report that the Iowa State Ry. Commission has granted our petition, and will adopt the western Classification, as it applies to the nursery business. This, I think, will effect a material saving to the nurserymen of Iowa.

We have had this matter up with the commission for some time, and desire to thank Mr. J. W. Hill and Captain C. L. Watrous for their assistance in securing this important concession. Respectfully yours,

W. C. REED,
Chairman of the Transportation Committee,
American Association of Nurserymen.

Vincennes, Ind.
Sept. 18, 1906.

NATIONAL NURSERYMAN,
Rochester, N. Y.

Gentlemen:

I wish to inform you that on September 25th, The White Elm Nursery Co. of Watertown and Oconomowoc, Wis., purchased the Hartland Nurseries. All correspondence to be through the Watertown and Oconomowoc offices.

WHITE ELM NURSERIES, INC.

SITUATION WANTED

Eighteen years experience in the Nursery Trade, correspondence, collections, delivery packing and shipping, either agents or catalogue business, with Retail or Wholesale Trade.

FRED E. YOUNG,
General Delivery,
ROCHESTER, N. Y.

WANTED AT ONCE

Ten Experienced Nurserymen who are good budders and grafters. Permanent positions and good pay for the right men.

CALIFORNIA NURSERY COMPANY,
Niles, California.

PEACH PITS.

We have on hand 1000 bushels of thoroughly washed and dried **PEACH PITS**

Write me for Prices.

HOWARD THOMAS & SON, GRAND RAPIDS, MICH.

IMPORT NURSERY STOCK

We represent principal Foreign Growers of

FRENCH FRUIT AND ORNAMENTAL STOCKS,

English Manetti, Japanese Nursery Stock, H. P. Roses, Tree Roses, Rhododendrons, Azaleas, Bay Trees, Pæonies, Koster Spruce, Conifers, Norway Maples, etc., etc.

Write for catalogue and special lists.

RAFFIA—RED STAR BRAND.
(The Nurseryman's Grade)

About its quality ask your neighbor.
About its price. Ask us.

McHUTCHISON & CO.
17 Murray Street, NEW YORK CITY.

James A. Young, proprietor of the Aurora Nursery Co., Aurora, Ill., called on nurserymen in Western New York, the last days of September. Mr. Young has had long experience in the nursery business, selling large orders to farmers and orchardists. Mr. Young personally attends to the selection of the stock that he delivers. It is guaranteed true to name, and the trees will grow and make money for the purchaser.

4,000,000 PEACH TREES

J. C. HALE, Prop.

TENNESSEE WHOLESALE NURSERIES,
WINCHESTER, TENN.

Large stock of Apple, 1 yr. Pear and Cherry. Write for prices.

Hybrid Perpetuals, Hybrid Teas, Teas, Etc.

Send Your Want List.

101 best sorts

ROSES

Get Our Price List.

Hardy Climbers, Noisettes, Ramblers, Etc.

Orders booking for Fall and Spring delivery.

On own roots.

THE LEEDLE FLORAL COMPANY® SPRINGFIELD·OHIO·

2½ inch pots.

NURSERYMEN'S STOCK BOOKS.

Revised edition; 68 pages, 16 x 21 inches. Printed on good quality ledger paper and bound in tough tag board.

PRICE, $2.00. Sample leaf on application.

SCRANTOM, WETMORE & CO., = Rochester, N. Y.

CHERRY TREES

We offer both one and two year old Cherry trees for the coming fall and spring. Nurserymen who have never seen our one year trees cannot appreciate their quality and worth. Can also furnish some Plum and Peach and other stock. Let us figure on your wants.

KNOX NURSERIES,
H. M. Simpson & Son, Vincennes, Indiana

Join our Colony of Northern Folks.

New plan. Work for all. Free schools. Free fuel. Two railroads, two crops per year. Within sight of the county court house. No malaria, fine water, good markets, good neighbors and churches. Working people helped to homes.

Address,

C. W. WAUGHTEL, MGR.,
1906 Colony Co. FOLKSTON, GA.

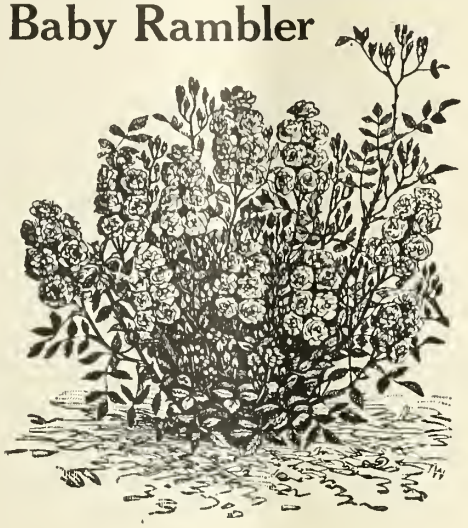
Oakland Nurseries

will make special prices for immediate orders on PEACHES and APPLES in car lots for late fall delivery.

We also have a fine lot of Shrubbery, including Berberry Thumbergii. Don't fail to send us your want list for SPECIAL PRICES.

C. R. BURR, Proprietor,
Manchester, Conn.

Rose Mme. Norbert Levavasseur or Baby Rambler



For Sale,
250,000.

PRICES for plants grafted on Briar's roots, 8 to 14 inches high and 3 to 6 shoots.

The Firm **Levavasseur & Sons,**

USSY (Calvados) and ORLEANS (Loviet) FRANCE,

beg to inform the trade that their contract with Messrs Brown Brothers of Rochester, being to expiration they are ready to book orders for the popular Baby Rambler.

Plants can be shipped from France from 15th of October, 1906, to 15th March, 1907.

Send orders now direct to our address.

Also full lines in Fruit Tree Stocks, Rose Stocks, Evergreens, Ornamentals, Novelties.

Dreer's Herbaceous Pæonies

We will have to offer for September and October delivery an immense stock of Home Grown Pæonies in popular standard varieties, a special list describing these and quoting interesting prices is now ready. If you are interested drop us a line and a copy of same will be mailed to you.

HENRY A. DREER,
714 Chestnut St., Philadelphia, Pa.

CHARLES M. PETERS,

Formerly of W. M. PETERS SONS,

OFFERS ONE MILLION GRAPE VINES

One and Two Years Old for Fall of 1906 and Spring of 1907 delivery.

Varieties in greatest quantity, Moore's Early, Concord and Niagara. Other varieties in limited quantity.

My soil I find especially adapted to making plenty of fiberous roots and plenty of vine. A trial order will convince you that my grading, quality and price will be satisfactory. It is now my intention to make the growing of Grape Vines a specialty. Correspondence solicited.

P. O. Address, SNOW HILL, MD.

Long Distance Phone and Telegraph, Snow Hill, Md.

NEW YORK CENTRAL LINES

The Great Central Railway System of America

Operating more than 12,000 miles of railway east of Chicago, St. Louis and Cincinnati

COMPRISING THE

New York Central & Hudson River
Lake Shore & Michigan Southern
Big Four Route
Michigan Central
Boston & Albany
Pittsburg & Lake Erie
Lake Erie & Western
Chicago, Indiana & Southern
Lake Erie, Alliance & Wheeling
New York & Ottawa and Rutland Railroads

C. F. DALY
Passenger Traffic Mgr.
New York.

W. J. LYNCH
Passenger Traffic Mgr.
Chicago.

I HAVE TO OFFER

Orange Quince Buds

true to name. These are very fine. I trust you will favor me with an order, which will be shipped promptly. Write for prices.

JOHN TWOMEY, Geneva, N. Y.

W. FROMOW & SONS, THE NURSERIES,

WINDLESHAM, SURREY, ENGLAND.

English grown Roses, Rhododendron and other Hardy Nursery Stock from over 200 acres in cultivation, Golden Privet, the true kind, in all sizes. Trade list mailed on application to our American agents,

AUGUST RÖLKER & SONS, NEW YORK, 31 Barclay Street, or P. O. Box 752.

OAKLAND NURSERIES

COLUMBIA, TENN.

Fruit and Ornamental Trees, Plants, Vines, Shrubs, Roses, Evergreens.

The most complete assortment we have ever grown, at lowest prices. Planters send list of wants before placing your order. Dealers' orders billed to their entire satisfaction. Agents Wanted. Mention National Nurseryman.

W. Y. C. GRANT, Columbia, Tenn.

HOWARD E. MERRELL,

GENEVA, N. Y.

has for the coming Fall and Spring an **extra fine lot** of

2yr. Dwarf Pears.

CUT LEAF W'P'G BIRCH, and HARDY H. P. MOSS and CLIMBING ROSES.

He will make special rates on these items. He also has a full line of fruit trees stock, of the best quality and the standard sorts of ornamental Trees and Shrubs.

SUBMIT YOUR LISTS FOR PRICES.

WEATHER-PROOF

SHIPPING-TAGS

and

Paper Tree Labels

FOR NURSERYMEN.

Write for samples and prices, and let us demonstrate our ability to save you money.

THE DENNEY TAG CO.,
West Chester, Pa.

The I. N. Brown Box Clamp.

LET ONE MAN DO THE WORK OF TWO.

Try One.

ENDORSED BY LEADING NURSERYMEN.
WRITE FOR PRICES AND CIRCULAR.

Manufactured and for sale by J. N. BROWN, Atlantic, Iowa.

LOMBARDY POPLAR, 2 yrs., fine, 9 to 11 ft.
LOMBARDY POPLAR, 25 ft., heavy.
CAROLINA POPLAR, 2 and 3 yrs., fine, 9 to 12 ft.
FINE SHRUBBERY. CAL. PRIVET.
PEACH TREES, &c. HEMLOCK SPRUCE, 3 to 6 ft.

JOSIAH A. ROBERTS,
Malvern, Pa.

TREE-BOX LUMBER

Why Not Buy your Lumber for Boxing Sized, cut to Lengths You Use and all Ready to Nail Together? It Costs but Little More than the Common Lumber you buy and you will Save Work, Waste and Money.

SPECIAL PRICES ON CAR-LOTS

MILLS
WAUSAU, WIS.

GOODWILLIE BROTHERS
407 New York Life Bldg., Chicago, Ill.

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer Japan Golden Russet, Magnolia, Beuerre d'Anjou and Law rence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively short.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for this year.

PECANS—We continue to make a specialty of grafted Pecans These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

Apple Trees and Apple Seedlings

With usual supply of Cherry, Peach, and Plum Trees for Fall, 1906 and Spring, 1907.

GOOD STOCK,
GOOD GRADES.

L. R. TAYLOR & SONS,
TOPEKA, KANSAS.

WABASH R. R.

offers unexcelled service to the

WEST

FIVE DAILY VESTIBULED TRAINS
Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS
Buffalo to St. Louis
Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.
JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.
R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention The National Nurseryman.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

PAN-HANDLE NURSERIES,
GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach
IN CAR LOTS.

We also grow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendrons, etc., etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

J. K. HENBY & SON.

Situation Wanted as Stenographer, Bookkeeper, or general office work, by young lady. Have had seven years experience with a retail Nursery Catalogue House. Address,

R. care NATIONAL NURSERYMAN.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
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ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
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Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right; we make them ourselves.

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Carl Sonderegger, Prop. Beatrice, Neb.

Willis Nurseries

OTTAWA, KANSAS,

offers for Fall of 1906 and Spring of 1907,

APPLE, PEACH,
PEAR, PLUM,
CHERRY,
CONCORD GRAPES,
BLACKBERRIES,
RASPBERRIES,
HEDGE, TREE SEEDLINGS
and ROSES.

Stock is strictly choice in every way. We solicit your orders and will make favorable prices.

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OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

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Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

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Successors to WM. M. PETERS' SONS.

OF SNOW HILL NURSERIES,

OFFER FOR FALL, 1906

PEACH TREES—more than fifty leading varieties one year from bud, aggregating upward of a million fine trees.

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CALIFORNIA PRIVET—one, two and three years finely branched large stock.

GRAPE VINES, 30 acres—one and two years, fine roots and vine varieties in greatest quantities; Concord, Moore's Early and Niagara.

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A full assortment of **Americana, Chickasaw** and **Japan Plum,** two and one year.

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Carmen, ELBERTA and **Greensboro June Buds,** all grades including **3=4 ft.** and **4=5 ft.**

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Altheas and **Dwarf Box** for transplanting.

We will commence budding Plum on Marianna, August 15th, and would like to figure with you for any number Plum one year Fall 1907.

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BOX STRAPS

Any Lengths up to 63 Inches.

Light gauge, soft, strong, cheap, convenient. Average weight, one ounce per foot. Eight straps 12 inches long cost one cent. *Write for Price List.*

WARD=DICKEY STEEL CO.

INDIANA HARBOR, IND.

MANUFACTURERS OF PLANISHED SHEET STEEL.

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IN GOOD ASSORTMENT SOME EXTRA HEAVY TREES FOR SPECIAL TRADE. LOW PRICES IN LARGE OR SMALL LOTS.

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TWO year old Apple and Grape, and one year Peach from the bud, and one year old Cherry, for wholesale.

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GROWER AND EXPORTER OF FRUIT TREE STOCKS, FOREST TREES AND ORNAMENTALS.

Extra Large assortments of shrubs, Conifers, etc. Prices on Application.

Jackson & Perkins Co.,

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Sole Representatives for the United States.

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GROWER AND EXPORTER OF

French Nursery Stocks, Dutch Bulbs,

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All grown specially for the American trade.

PEAR AND CRAB APPLE SEED

The most complete assortment of Ornamental Stocks, Trees and Shrubs.

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1,000,000 JUNE BUDDED PEACH

Elberta, Carman, Salway, Bell of Georgia, Waddell, Hiley, Greensboro. Also General Line of Nursery Stock at wholesale. Write for prices.

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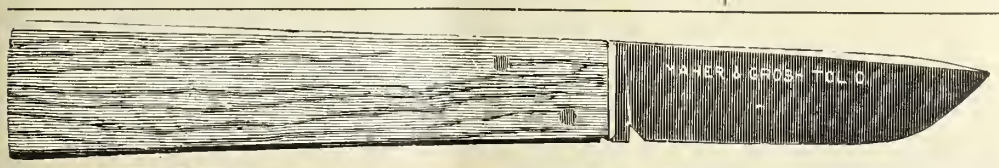

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Hand Forged Razor Steel Warranted

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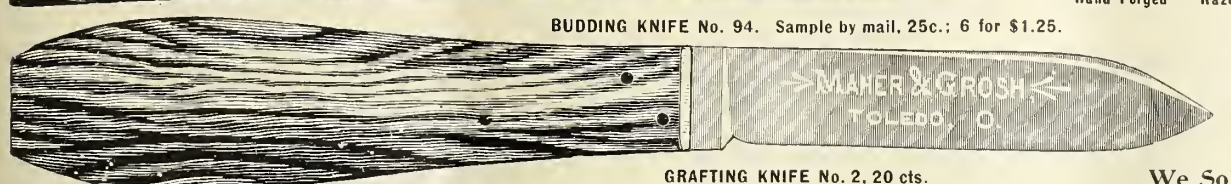

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WHEELOCK & CLARK,
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Grape Vines and Currant Plants
A SPECIALTY.
CORRESPONDENCE SOLICITED.

RHODODENDRONS!

10 to 15 inches—20 to 30 inches—40 to 60 inches

All good strong plants. 13 years experience.
All orders filled promptly. Write for cash prices.

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HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

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PEACH SEED

Headquarters for Peach Seed from all sections and all grades and prices.

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STAR NURSERIES
XENIA, OHIO.

We have the following lines of superior stock to offer for Fall, 1906:

APPLE,
ST. PEAR,
CHERRY,
PLUM,
PEACH.

We have a full supply of the famous Opalescent Apple. Plates free.

An opportunity to submit prices on any of the above stock is respectfully solicited.

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GRAFTED PECAN TREES
Our Specialty to the Trade.

We offer this season an exceptionally fine stock of trees of the improved large paper and soft-shell varieties at very reasonable prices.

Submit want list for prices and ask for Trade List, ready Aug. 15th.

THE NUT NURSERY CO.
J. F. JONES, Manager and Proprietor,
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Wanted, Nursery Foreman

to take full charge of a Nursery embracing about 200 acres where a general line of stock is raised, principally Ornamental. Must be one thoroughly up to-date. Good executive ability.

Such a man can secure a first-class position.

Apply with references, Z, care of National Nurseryman.

Carolina Poplar

If you want a tree or a carload write us.

We also have a general line of Nursery Stock to offer including Maple, Apple, Peach, both 1 year and June budded.

Giles County Nursery Co.
R. O. LAMAR, Mgr.
PULASKI, TENN.

Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

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For nursery stocks, of their own growing, grading and packing
For quotations apply to

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Peach Trees—Budded on Natural Peach Seedlings.
Std. Pears—Nice assortment, Keiffer especially.
CALIFORNIA PRIVET—Fine Plants.
And General Line of Nursery Stock.

We have on hand about 200 Bushels Natural Peach Pits, crop 1905, and expect in due season our usual supply of this year's crop. We have been handling these seeds for years with universal satisfaction.

Correspondence solicited.

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Western Reserve Nurseries,

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Offer for fall 1906 and spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

HEALTHY TREES
At BARGAIN PRICES

APPLE	PEACH
CHERRY	PEAR
PLUM	QUINCE

We also have at all times an especially fine line of ORNAMENTAL TREES, SHRUBS and EVERGREENS. Will also have in quantity the following Forest Seedlings: BLACK LOCUST, CATALPA, SPECIOSA and OSAGE ORANGE

Tell us what you want to buy and we'll make our prices interesting

The Geo. Peters Nursery Co.
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UNIVERSITY AVENUE NURSERIES

FOR FALL OF 1906.

WE OFFER AS FOLLOWS:

Pæonies. *Not a Phantom* but a real self-contained fine collection in choice, best kinds. None better; few as good.

Baby Ramblers. In 2 years, *extra heavy* field grown plants. *The best we ever saw.*

Clematis. Two-year, field grown, Andre, Duchess of Edinburg, Henreyi, Jackmanni, Ramona, Paniculata.

Ampelopsis Veitchii. Two-year, extra strong field grown.

Dutch Pipe. Three years, very strong. Our usual grade.

Roses, H. P's. Crimson Ramblers, Dorothy Perkins, other Climbers, and Mosses.

Shrubs. All strong plants, A full desirable collection.

Syringa, Purpurea Maculata. New. The spotted Mock Orange. Exquisite, perfect perfume.

Vewnica Longiflora, subsessilis. The *New Blue Bird Flower.* A grand *hardy* border plant.

Gooseberries. Downing and Houghton, 2 years, fine plants, etc.

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ROCHESTER, N. Y.

Hoopes, Bro. & Thomas

Maple Avenue Nurseries,

WEST CHESTER, PA.

OFFER FOR THE FALL OF 1906

a large assortment of Ornamental Trees and Shrubs, especially fine stock of PIN and RED OAKS, all sizes.

Would also call your attention to our VIBURNUM PLICATUM'S, fine plants.

We have the largest field of PEACH TREES we ever grew, also surplus of JAPAN PLUMS

SEND US YOUR LIST OF SHORTS.

Established 1853.

Philadelphia Office,
222-3-4-5 Stephen Girard Building.

P. SEBIRE & SON, Nurserymen

USSY, CALVADOS, FRANCE.

A general assortment of Fruit Tree Stocks, such as APPLE, PEAR, MYROBOLAN PLUM, MAHALEB and MAZZARD CHERRY, ANGERS, QUINCE, SMALL EVERGREENS, FOREST TREES, ORNAMENTAL SHRUBS, ROSES, ETC. The largest stock in the country. Prices very low. Grading and packing the very best. Send for quotations before placing your orders elsewhere. Catalogue free.

Agents for United States and Canada.

C. C. ABEL & CO., 110-116 Broad St., New York

FOREST TREE SEEDS AND SEEDLINGS

CATALPA, BLACK LOCUST, ASH, BIRCH, RED BUD, PERSIMMON, ELMS TULIP POPLAR, SWEET GUM, RUSSIAN MULBERRY, BUCKEYE, BLACK AND JAPAN WALNUTS, CALIFORNIA, PRIVET, WISTARIAS, VIRGINIA CREEPER, YUCA, AND VARIOUS SEEDS AND SEEDLINGS, FINE STOCK OF SEEDLINGS OF ABOVE. Send for Trade List.

Forest Nursery and Seed Company

R. F. D. 2., McMINNVILLE, TENNESSEE.

GRAPE

All Old and New Varieties
IMMENSE STOCK WARRANTED TRUE.

QUALITY UNSURPASSED.

Catalogue and Price List Free.

Send list of wants for lowest prices f. o. b. here.

An extra fine stock and full assortment of varieties of CURRANTS and GOOSEBERRIES; also BLACKBERRY ROOT CUTTING PLANTS.

T. S. HUBBARD CO.,
FREDONIA, N. Y.

VINES

BALTIMORE NURSERIES

Franklin Davis Nursery Company,
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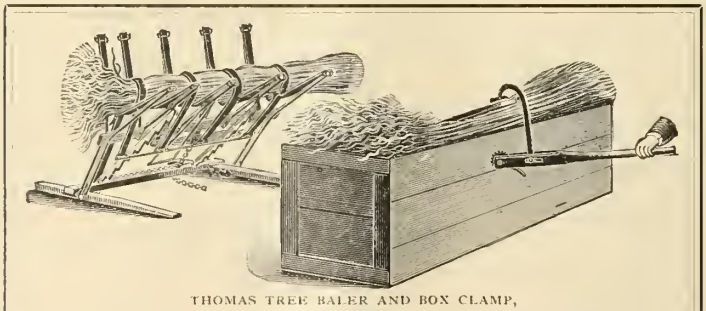
WE OFFER FOR SPRING, 1906 A GENERAL LINE OF WELL-GROWN STOCK, SUCH AS

APPLE, PEACH, PEAR, PLUM, CHERRY, APRICOTS, &c.

ALSO A GOOD ASSORTMENT OF ORNAMENTAL TREES, SHRUBS, ROSES, &c.

A FINE LOT OF 1, 2 AND 3 YEAR OLD PRIVET, CUT BACK THIS SPRING, HEAVILY BRANCHED.

Several hundred bushels of Selected Peach Seed. We pack dealers' orders. Send us your list of wants, also your surplus list.



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SPEER GRAFTING MACHINE

Smoothing Harrow, Best Digging Spade, Bud Transplanter, other good tools for Nurserymen.

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Ussy, Calvados, France.

A General Assortment of Fruit Trees and General Nursery Stock, Roses, etc., etc.

Prices Very Low. Packing Secured. Catalogue Free.

Write direct to us, we have no agents.

June Bud and 1 year peach, 1 and 2 year apple, Mountain Natural peach seed, etc. Get our prices.

CHATTANOOGA NURSERIES
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GOOSENS & HELLEMONS, Oudenbosch, Holland

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GROWERS of hardy *Ornamental* and *Forest Trees*, *Evergreens* and *Shrubs* (frequently transplanted); of all the leading *Conifers*, recently transplanted, with very good rootballs; also *Seedlings of Forest Trees; Azaleas*, *Rhododendrons*, *Clematis*, *Paeonies*, *Roses*, etc. Packing attended to with the greatest care. For latest TRADE PRICE LIST and all orders address our American Agents:

AUGUST RÖLKER & SONS, 31 Barclay St., NEW YORK. P. O. Box 752

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After January 10, 1907

We can complete more good catalogues for nurserymen—catalogues made with the *selling power* features the Mount Pleasant Press puts into them—IF THESE CATALOGUES ARE ORDERED

Before November 15, 1906

At this writing, October 13, 1906, all our catalogue capacity until

January 10, 1907, is fully engaged, and we have had regretfully to decline late orders for January 1 delivery.

There is plenty of time for the making of next spring's nursery catalogues, IF THEY ARE ORDERED EARLY. For February catalogues, we should have orders

Before December 15, 1906

And that is none too soon! For March and April, which is pretty late for such work, our friends should make sure of having orders on our books

Before January 15, 1907

The present unprecedented rush of business indicates two things—the prosperity of the horticultural trades, and the help our good work gives in maintaining that prosperity. We are increasing the merits of our work all the time, and the delighted customers who keep coming to us are certainly pleased with the service we render.

Please help us to serve the new friends who will come to us in 1907 by making inquiries *early* and *definite*. Tell us (1) what sort of a catalogue you want to consider, (2) how many pages, (3) how many copies you want, and (4) when you want them ready. DON'T ask us to provide (5) wooden "stock" catalogues, or (6) obsolete plate-books, filled with "hand-painted" plates. Our Rochester friends will gladly supply these aids toward repose in business at *very* low rates. We work for the live nurserymen; their names are on our order-books, and their faces are frequently seen in our Press, looking over the greatest collection of horticultural photographs in the world, made and maintained in the establishment which has revolutionized the whole sphere of horticultural catalogue-making and illustration.

J. HORACE McFARLAND COMPANY

MOUNT PLEASANT PRESS

HARRISBURG, PENNSYLVANIA

The Poppy picture on the other side introduces the dainty catalogue of a new member of the nursery trade, who thus gets right down to the best business methods at the start. Why not consider our advanced color-printing methods for work that will sell the stock you have grown?

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., NOVEMBER, 1906. No. 11

A CAMPAIGN AGAINST SAN JOSÉ SCALE.

SUCCESS CROWNS THE EFFORTS OF A PRACTICAL ORCHARDIST OF ORLEANS COUNTY, NEW YORK.

The following interesting communication by Professor Slingerland should bring hope and new courage to those who are wavering in regard to their ability to cope with San José scale. Mr. Wood requested that nothing should be said about this infestation until he had given remedial measures a fair trial. Now that the enemy has been not only defeated, but exterminated, he says: "I have no objections whatever to your making a statement regarding the results of our campaign in fighting the San José scale. My offer of one dollar for every live scale found in the orchard treated still holds good. My fruit is finer this year, and the quantity is greater than ever before."

THE STORY, BY PROFESSOR M. V. SLINGERLAND.

"In the autumn of 1905 a serious infestation of the San José scale was discovered in a young, six-year-old pear orchard of about 600 trees, belonging to Mr. Albert Wood, of Carlton Station, one of Western New York's prominent fruit growers. Some infested peach trees in the orchard were cut down at once, but I finally persuaded the owner to spare the pear trees for one season at least, and see what could be done against the scale with one of the new proprietary insecticides, called 'Scalecide.' There are two or three of these so-called miscible oils, which I think are of about equal effectiveness against this pest, but it was decided to make the test with 'Scalecide.' Some of the trees were simply encrusted with the scale, and about 150 were so badly infested that it was decided to spray them late in October, even before the leaves had dropped, as the insect was breeding in great numbers.

AUTUMN TREATMENT.

"After some preliminary tests, the material was then applied to these trees at the rate of one gallon of Scalecide in twelve and a half gallons of water. The results were soon apparent, and it was later estimated that at least ninety per cent. of the scales had been killed. As soon as the foliage was off, late in November, the whole pear orchard and some larger neighboring plum and peach trees were sprayed with Scalecide, at the rate of one gallon in fifteen gallons of water. Two rows through the center of the orchard were sprayed about the same time by a State inspector with the lime-sulphur wash. Early in April, before growth began, the State inspector estimated that more than ninety-five per cent. of the scales were dead. The whole orchard was then sprayed again with Scalecide in the same proportion as before, and the two rows were again treated with the lime-sulphur wash Thus, the worst infested trees received three applications of Scalecide. The first application burned the edges of a few of the leaves, but this is practically all the injury that I have been able to discover on the trees up to date.

THE RESULTS.

"The orchard has been carefully watched during the past season. Several entomologists and horticulturists, besides myself, have carefully examined the sprayed trees, and I made a second careful examination recently. The owner became so confident during the summer, that he finally offered $1 each for every *living* scale found on the sprayed trees. And yet in the face of this offer, so far as I know, not a single living scale has been found in the orchard this season, in spite of the careful scrutiny the trees have been given by experts. It, therefore, looks as though the orchardist had practically annihilated the pest in this orchard, and I believe it was wholly due to the materials used and the thoroughness with which they were applied. The results cannot be attributed to weather conditions, for the insect has obtained a foothold and bred in large numbers in other orchards near by during

A class of Cornell Horticultural Students visiting Mr. Wood's orchard.

the past summer. I think the whole secret of success was in the thoroughness with which the materials were applied, both the Scalecide and the lime-sulphur wash, and the fact that two thorough applications were made. While I think it is possible to check and control this pest with one thorough application early in the spring, it is very difficult to get a thorough application made. I realized, when planning the experiment, that my recommendations would be fully carried out, for Mr. Wood, owner of the infested trees, was thoroughly alarmed over the situation, and determined to do or die. He would have cut down and burned the whole orchard if I had said the word.

BELIEVES IN LATE FALL SPRAYING.

"This experiment has led me to believe that the most effective blow against this pest can be struck in late fall, after the foliage has dropped and when the insects are still breeding and the young scales are more vulnerable, as they have not yet attained their hibernating conditions. It is also often more convenient to spray at this season than in early spring, when spring work is rushing. I would not advise, however, depending entirely upon this fall application, but would surely spray again in early spring.

THE INSECTICIDE.

"There is no question but what the lime-sulphur wash is as effective as any insecticide yet discovered for the San José scale, and hundreds of careful experiments have shown that it is very effective when thoroughly applied. But the lime-sulphur wash is troublesome to make, disagreeable to use, and is hard on the apparatus used in applying it. In many cases where only a few trees or shrubs in yards are infested, or where one is not equipped for making the lime-sulphur wash, some insecticide more easily prepared and more agreeable to use is demanded, even though it may cost considerably more than the lime-sulphur wash. Many experiments in different parts of the country indicate that the so-called miscible oils rank next to the lime-sulphur wash in effectiveness, although they cost about twice as much for materials to make the spray. But this is largely overcome by the ease of making, as it is necessary, to simply pour one gallon into fifteen gallons of water and stir it slightly, to form a perfect emulsion. Furthermore, they are much more agreeable to apply, and do not seriously affect the apparatus. Another good point about these miscible oils is that they spread much better than the lime-sulphur wash, especially when the spray has 100 or 125 pounds pressure behind it. This question of sufficient pressure, I believe, is an important one also in spraying for this pest. At least 100 or 125 pounds pressure should be maintained constantly, so as to drive the spray into all the cracks and crevices, and I think this force must also help the spray in penetrating the closely adhering scales, where it can more readily get at the living scales underneath.

The San José scale is beyond question one of the most destructive insect pests now infesting orchards, and it is also one of the most difficult to combat successfully, as it is so small and breeds so rapidly. But the above experiment shows what a thorough-going, up-to-date orchardist can do, and if one can accomplish such results, why cannot others?

"M. V. SLINGERLAND."

Good bulletins on this important subject have been issued by Illinois Expt. Sta., Conn. Expt. Sta., New Jersey Expt. Sta. and New York Expt. Stations, Geneva and Cornell.—Ed.

Note and Comment.

THE GULF STATE HURRICANE.

The commission men and produce dealers were hard hit by the Pensacola and Mobile hurricane. The president of the National League of Commission Merchants, Mr. Wagner of Chicago, was very prompt in offering assistance on behalf of the association to the stricken brethren in Mobile. It appears, however, that no financial assistance was required by the active men of the South, who after recovering from the shock immediately set to work to repair the injury. The damage to the shipping interests and warehouse men is very heavy; but the prosperity which has visited them for the past two or three years in the South will do much towards tiding them over this troublous period.

CALIFORNIA FRUIT GROWERS.

The State Fruit Growers of California will meet at Hanford on December 4, under the auspices of the State Horticultural Commission. Arrangements are in progress whereby an interesting and instructive program will be presented, and it is hoped that the attendance will be full and representative. The secretary of the Association is John Isaac, and the commissioner in charge is Mr. Elwood Cooper, whose office is at Sacramento.

ORLANDO HARRISON'S JUVENILE CONTINGENT.

COMING NURSERYMEN.

We are glad to present an interesting group of Mr. Harrison's four boys, Hale, Henry, Orlando, Jr., and John. These youngsters are growing up in an outdoor nursery. They are being trained for the vocation of nurserymen. When the editor of the NATIONAL NURSERYMAN visited Harrison's nursery a year ago, he found Hale, twelve years old, and Henry, ten years old, preparing peach sticks for the budders. These two boys are expert leafers. They have also learned to tie buds rapidly as well. In this work they are partners with their father, who believes in giving them practical experience. In these days of the troublous labor conditions, a group of assistants of this kind is a very important aid, and as Mr. Harrison says, if the labor question continues to grow more difficult year by year, as it promises to do at the present time, a group of boys will be the most profitable crop a nurseryman can raise. Of course, this is always contingent upon the ability of the grower to interest the boy in the nursery business.

Business Movements.

Thomas Meehan & Sons, Dreshertown, Pa., are offering fruit stock seeds, including French crab, mazzard and mahaleb pits, myrobolan, French and Kieffer pear seed, in wholesale quantities.

Mr. E. Runyan, Elizabeth, N. J., and Mr. W. H. Moon, Morrisville, Pa., members of the Tariff Committee, expect to call a meeting for the fore part of December in New York. All persons interested in the work of this committee should communicate with the gentlemen named above.

ELLWANGER & BARRY AT THE FAIRS.

This noted firm of Rochester, N. Y., which has a larger number of varieties under test than almost any other nursery concern in the country, secured seventy-two first prizes for fruit exhibited at the New York State Fair at Syracuse. Fifty other prizes were also captured, making a total of one hundred twenty-two for the season of 1906.

Marshall Brothers, of Arlington, Nebr., were credited in the annual report with a subscription of ten dollars to forward the work of the society. This should read twenty-five dollars. President Harrison so informs the NATIONAL NURSERYMAN.

ROUGH WEATHER—HEAVY ORDERS.

EDITOR NATIONAL NURSERYMAN:

We have been favored with over a week of the worst weather we have ever had at this time of the year, and were never so badly behind on orders. So far as we can judge, have orders for fully as much stock as we ever had at this time of the year, and certainly have more stock booked for future delivery than we ever had booked before so early. It looks to us as though several of the leading lines of fruit and ornamental stock will be closed out long before spring sales are over.

Painesville, Ohio. THE STORRS & HARRISON CO.

A NURSERY IN THE BRONX.

The Bronx Arboretum and Rosarium has recently been established at 967 E. 166th street, New York.

It is proposed to keep on permanent exhibition, collections of plants by European and American growers.

Mr. F. Von Hoffman is chairman of the Board of Management.

A general nursery business with special reference to ornamental plants will be conducted.

Nurserymen are requested to forward catalogues.

The Illinois State Horticultural Society will hold its fifty-first annual meeting at Champaign, December 12-14, 1906. A feature of the meeting will be an exhibit of summer and fall varieties of apples which have been held in cold storage. The Secretary of the Association is L. R. Bryant, Princeton, Illinois.

Obituary.

Mrs. Theodosia B. Shepherd, a prominent seed grower of Ventura-by-the-Sea, California, died on September 6. Mrs. Shepherd's name will always be associated with the seed and bulb growing industry of California. Some twenty-five years ago she was one of the pioneers in that field, and did much to establish the industry which has since grown to such important dimensions.

Albert Wyckoff, of Dayton, Ohio, vice-president of the Albaugh Nursery & Orchard Co., died very suddenly of heart failure near Buffalo, N. Y., on board train, Sept. 24, 1906, aged 60 years.

He had been connected with this nursery many years, and for the past several years had been its vice-president. He was a man of unquestioned integrity and a leading horticulturist. In his boyhood days he had enlisted in an Ohio Cavalry Regiment and served until the civil war closed. He was a prisoner in Andersonville rebel prison pen for a number of months in 1864, from which he dug out and escaped twice, but each time was recaptured and brought back. His place will be hard to fill. N. H. A.

The National Nurseryman

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VICE-PRESIDENT AND EDITOR, ... JOHN CRAIG
SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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Correspondence from all points and articles of interest to nurserymen and horticulturists are cordially solicited.

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ROCHESTER, N. Y., NOVEMBER, 1906.

AMERICAN ASSOCIATION OF NURSERYMEN.

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Publicity—J. M. Irvine, St. Joseph, Mo.; John C. Chase, Derry, N. H.; H. D. Simpson. Vincennes, Ind.
Exhibits—Thos. Meehan, Dreshertown, Pa.; H. P. Kelsey, Salem, Mass; E. P. Bernardin, Parsons, Kans.; J. Woodward Manning, Reading, Pa.; Henry Chase, Huntsville, Ala.
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Editing Report—J. Horace McFarland, Harrisburg, Pa.; O. G. Chase, Geneva, N. Y.; Geo. C. Seager, Rochester, N. Y.

STATE AND DISTRICT ASSOCIATIONS.

AMERICAN NURSERYMEN'S PROTECTIVE ASSOCIATION—President, R. C. Berckmans, Augusta, Ga.; vice president, A. L. Brooke, secretary, Thomas B. Meehan, Dreshertown, Pa.; treasurer, Peter Youngers. Meets annually in June.

NURSERYMEN'S MUTUAL PROTECTIVE ASSOCIATION—President, N. H. Albaugh, Phoneton, O.; secretary, George C. Seager, Rochester, N. Y. Meets annually in June.

AMERICAN RETAIL NURSERYMEN'S PROTECTIVE ASSOCIATION—President, Charles J. Brown, Rochester, N. Y.; secretary, Guy A. Bryant, Princeton, Ill. Meets annually in June.

EASTERN ASSOCIATION OF NURSERYMEN—President, W. C. Barry, Rochester, N. Y.; secretary-treasurer, William Pitkin, Rochester, N. Y. Meets annually in January.

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SOUTHWESTERN NURSERYMEN'S ASSOCIATION—President, J. W. Preston, Kingfisher, Okl. Terr.; secretary, J. A. Taylor, Wynnewood, Ind. Terr.

TEXAS NURSERYMEN'S ASSOCIATION—President, E. W. Kirkpatrick, McKinney, Texas; vice-president, B. L. Adams, Bonham, Texas; secretary-treasurer, John S. Kerr, Sherman, Texas.

PACIFIC COAST ASSOCIATION OF NURSERYMEN—President, F. W. Power, Chico, Cal.; secretary-treasurer, C. A. Tonneson, Tacoma, Wash. Meets annually in June.

PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

The editorial office is in receipt of a copy of the annual report. The delay in printing the report appears to be chargeable to a tardy stenographer. The manuscript was not received in Rochester until September 18th, so that the secretary is after all to be congratulated in getting it out so expeditiously. The report comprises eighty-three pages, contains verbatim reports of the principal addresses, and the gist of the more important discussions. It is nicely printed, and has been carefully edited.

THE ANNUAL REPORT.

A movement is on foot, or perhaps it would be better to say, is being mooted, for the purpose of securing a conference composed of representatives from the business organizations of the State of New York, to be held for the purpose of perfecting some plan whereby unfavorable political conditions may be met, as they arise from time to time at Albany. It is proposed that manufacturers' associations, commercial bodies, and civic organizations from every part of the State should take part in this conference. The main object is to promote good laws, and defeat or prevent illegitimate legislation. The idea originated with the "New York Manufacturer." It is somewhat utopian in purpose, and undoubtedly will be rather difficult to operate; but the motive is good, and it should not be set aside without careful consideration of the possibilities of the case.

CO-OPERATION AMONG ASSOCIATIONS FOR LEGISLATIVE PURPOSES.

We have not forgotten our promise to our readers, in response to the suggestion of Greening Bros., to present real live experiences in dealing with San José infestations. We are glad to present in this issue a very striking account of the experience of Mr. Albert Wood, Carleton Station, Orleans County, New York. Mr. Wood's experience should be a great encouragement to fruit growers throughout the country. It shows what can be done by energetic, intelligent, and persistent effort. He is so confident that the enemy has been completely destroyed, that he offers a dollar apiece for each live scale found in the treated orchard. We had the opportunity of examining these trees at different times during the progress of the campaign, and we are of the opinion that Mr. Wood is quite safe in making the offer.

SAN JOSÉ SCALE.

Nurserymen of the east have again experienced a satisfactory season's business. The dryness of August ripened wood nicely, and the rains of September developed a splendid fibrous root system on tree and herbaceous stock, which greatly facilitated digging and handling. The sales, too, have been fully up to the average. A few shortages in certain standard lines have added to the interest of the business in general. The high price of fruit stocks will stiffen the rates on nursery stock for the next year or two. Nurserymen should remember this in giving quotations

THE SHIPPING SEASON IN THE EAST.

to intending purchasers. Planters are beginning to realize that five or ten cents on the purchase price of an orchard tree is a small affair when compared with the possibilities of a year's growth. This is the right spirit, and should be encouraged.

TRANSPORTATION DIFFICULTIES.

In another column of this issue some of the difficulties which the shipper of nursery stock has been obliged to meet in the course of his business each year are set forth by men who know whereof they speak. Shippers by freight complain of delays and of the difficulty of tracing consignments which have strayed. Shippers by express complain of irregularity in charges, impossibility of securing recompense for lost articles or for pilfered packages.

It would be interesting to learn what is the average length of time required by express companies to adjust claims. We have one now, a little more than four months old against an express company, which periodically brings the answer that "the matter is being investigated," but which brings us no inward conviction that anything is being done.

How would it do to collect a group of these express troubles in one territory and turn them over to the traffic manager? The representative of a large association would, in all probability, receive much more consideration than an individual shipper. This, it seems to us, would be a legitimate use of the office of traffic manager of the association. His activities should touch express, as well as freight matters. We would suggest that Mr. Albertson be given an opportunity to exercise the influence of his position and his own wide experience in dealing with individual troubles of this nature.

Transportation.

SOME PERSONAL EXPERIENCES.

Emphasizing the value of the suggestions made by President Harrison in another place in this issue, we are glad to present, through the courtesy of several nursery firms, interesting correspondence regarding experiences with freight and express companies. These appear to be cases in which the traffic manager could very properly interest himself on behalf of the nursery firm concerned and others in that section.

EDITOR NATIONAL NURSERYMAN:

We beg leave to enclose some correspondence regarding minimum on C. L. under western classification which may be of interest to your readers. While it is generally understood that we are now working under the western classification ruling regarding minimum C. L., you will notice that the Harriman lines do not and will not apply the sliding minimum, which would allow western nurserymen to use 16,000 lbs. as a minimum on eastern shipments. So far as the nurserymen in the West are concerned, we get no benefit from the sliding minimum, especially on Harriman lines.

We are forwarding copies of this correspondence to Mr. Albertson, asking him to take up the question with the western classification committee.

We are just beginning our fall shipments and, of course, we are busy.

OREGON NURSERY CO.

Salem, Ore.

The correspondence is not appended, for it simply corroborates Mr. McDonald's statement that the Harriman lines did not recognize the western classification.—Ed.

UNJUST DISCRIMINATION IN FREIGHT RATES—EXPRESS ABUSES.

Replying to your favor of the 6th, the only trouble we have had lately in regard to freights, is on shipments coming through from the South, where it seems to us that the Southern Railway Co., shipping long distances, had lower rates than they allowed their shippers for a shorter haul. We have a claim now standing with our company for a difference of over $60 on a carload, where the shipment from a North Carolina point is rated very much higher than a shipment of the same class from a South Carolina point, and where there was a difference of 400 miles in the haul.

In express, we are equally fortunate, the only trouble now on hand being for a shipment sent this spring to Germany by Adams Express. The shipment consisted of Dogwoods, and three months after shipment left here, the express people presented an expense bill, covering expressage from Chestnut Hill to Germany on the shipment, and notifying us that as American nursery stock was not admissible in Germany, the shipment had been destroyed. Our reply was to refuse to honor their expense, and we made a claim for the value of the shipment, basing our claim on the grounds that the company should have known they could not get them in, before they took the goods, and that if they could not get them in, the goods belong to us, and should have been returned and not destroyed. We have hopes of collecting this account.

Yours truly,

WM. WARNER HARPER,
The Andorra Nurseries.

AIR YOUR GRIEVANCES.

EDITOR NATIONAL NURSERYMAN:

Yours of the 6th received. I think the people having grievances should let them be known, for if everybody is quiet, and has nothing to say, we cannot do anything. If they will state in what way they have been abused by either the freight or express companies, we could try and remedy the matter. For ourselves, we cannot see where we can have our express or freights bettered. I am willing to act with others, if those having grievances will let them be known.

Yours respectfully,

New Jersey. E. RUNYAN.

TRANSPORTATION—Continued.

OVERCHARGES, DELAYS, PILFERING—A HEAVY INDICTMENT.

EDITOR NATIONAL NURSERYMAN:

We could fill a book of instances citing overcharges, but have not time at this writing to do so. We have in the neighborhood of 300 claims annually against the railroad and express companies, which is a great nuisance.

No doubt you have found it is an iron-clad rule with both railroad and express companies to always demand full charges, and sometimes more than full charges on shipments which they deliver or forward. As the matter stands at present writing the shipper seems to have no recourse whatever but to pay these charges and enter claims; sometimes they are paid and sometimes not, but in most cases where they are paid it usually runs from two to four years. We note it is an established fact that railroad claim agents try to worry a shipper with continual correspondence, delays, etc., figuring that he will get disgusted in course of time and let the claim drop, which in fact is done by quite a number of shippers, especially those who do not keep a regular claim account against the railroad and express companies.

The greatest kick we have against the express companies is for the pilfering of fruit packages. It is impossible to ship 100 baskets of fruit by express and not have forty per cent. of them broken open and part of the contents stolen while in transit.

We believe the Railroad and Express Bill, which passed the last Congress, is a good thing, and no doubt will be amended this coming session. If the nursery people, or some other shippers, could prevail on Congress to have the bill amended, requiring railroad and express companies to deliver the shipments at correct figures, and fight it out themselves where an overcharge exists, it would be one of the greatest benefits to shippers all over the country that could be imagined. Shipper has to guarantee his freight, and in cases where shipment has been prepaid and reaches destination and the amount prepaid is found to be short, the party receiving the goods is compelled to pay the necessary amount before shipment will be delivered to him, and it seems a poor rule that will not work both ways; that is, if the shipment reaches the party and is overcharged, the delivering carrier should be compelled to deliver the same at correct figures.

STARK BROS. NURSERIES & ORCHARDS CO.,
Per Charles Sizemore, Traffic Mgr.

EDITOR NATIONAL NURSERYMAN:

Yours of October 6th is received. If I ventilated all my freight grievances and express grievances they would fill a book.

A specific instance of an unjust freight discrimination is the fact that for six years the Biltmore Nursery has been reaping the benefit of a so-called commodity rate very much under the regular freight rates. Until this season I have not only been unable to get any commodity rate to enable me to compete against a Vanderbilt institution, but until recently have not been able to get a quotation of the special Biltmore rate from the Southern Railway. I found out the discrimination by accident, although I repeatedly asked the Southern Railway for rates from both places for comparison, and they invariably gave me an incorrect quotation from Biltmore, which showed the same rate that I was paying from my station on their road. To my mind, there should be an entirely new adjustment of freight rates all over the country. I have just received a letter from the agent, Norfolk & Western, saying that the schedule of rates is so complicated that it is impossible for them to quote me a rate promptly.

In the South the great trouble is the excessive short haul rates. I have just received a quotation of forty cents per hundred weight for a haul across the State of Virginia, minimum car weight, 20,000 pounds. On the same class of goods from a point of the Delaware, Lackawanna & Western Road to the same destination, I have a rate quoted me of twenty cents for 16,000 pounds minimum for nearly twice as long a haul.

Is it any wonder the South is backward, and that these roads wonder why the business goes to their northern competitors?

I could multiply these instances indefinitely. The Southern Railway agent for three years has been shipping cars for me that would not clear the Baltimore Tunnel, necessitating a transfer of loose nursery stock at Alexandria, Virginia. Not being hardware, the results were disastrous, and instructions sent out seemed to do no good, the error occurring year after year, and the company taking more than twelve months to settle any claim for such damage.

I am not yet a government ownership voter, but we may be driven to it.

Yours truly,
HARLAN P. KELSEY.

REVISION OF TARIFF MATERIALIZES SLOWLY IN TEXAS.

Oct. 22, 1906.

THE NATIONAL NURSERYMAN:

The revision of the railroad tariff on nursery stock seems slow of materializing. The Texas roads have only recently adopted the revision on the requirement of the Railroad Commission of Texas. We also find unjust discriminations. For instance, carload rate on peach seed from Petersburgh, Tenn., to Sherman, Tex., was charged combination of locals, $1.15 per hundred, while from Fayetteville, thirteen miles distant, the Nashville rate of 77c. prevailed. Also, from Guthrie, O. T., to Sherman, Tex., the M., K. & T. road announced a rate of 42c., while the Santa Fé declined to announce a rate at all, and charged 65c. carload rates.

We would like to know of our Transportation Committee what redress we have, if any. An answer through the NATIONAL NURSERYMAN will be appreciated.

TEXAS NURSERY COMPANY, Sherman, Tex.

Doings of Societies.

The annual exhibition of the Chrysanthemum Society of America will be held in Chicago on November 6–12. This exhibition will be held in connection with the Horticultural Society of Chicago. A large and well classified list of special prizes, in addition to the regular prize list, is offered.

The annual meeting of the Southern Illinois Horticultural Society will take place November 27–28. This meeting is usually a large and successful one. It is managed by the active secretary, Mr. E. G. Mendenhall, Kinmundy.

Fruit and Plant Notes.

EXPORT OF FRUIT FROM THE UNITED STATES.

It is rather surprising to learn by government reports that the export of fruit shows a considerable falling off for the year ending June 30, 1906, when compared with the two previous years. In 1905, the export amounted to $15,297,391, while in 1904 its value was estimated at $20,347,699. In 1906, the value of the export amounted to $14,964,158. The cause of the decrease in 1906 is accounted for by the cutting out of a large portion of our trade with Germany. The great bulk of our exports are made up of apples, either green or dried, and the United Kingdom takes more than three-fourths of the green fruit, while Germany takes about one-half of the total export of dried apples. Germany is a heavy consumer of dried apricots and prunes. In canned goods, the United Kingdom takes more than all other countries put together. Of raisins the Dominion of Canada receives about two-thirds of our exports and of oranges about eight-tenths.

New York City is estimated to consume 1,650 cars of celery during the year, in addition to that which is grown in the immediate vicinity by gardeners who sell direct. Of the quantity shipped in, 500 cars come from California, 400 from Florida and 750 cars from various points up state.

Report has it that there is an excessively heavy demand for Bartlett pear stock, and that Northern Spy is also called for very freely by planters.

DATES IN TEXAS.

Mr. Harvey C. Stiles, horticultural expert of the Brownsville Railway in southern Texas, has during the past season pollinated a number of date palms in the vicinity of Corpus Cristi and southward. He has been rewarded for his labors by a handsome crop of fruit, which began ripening about September 1st. He now recommends the planting of date palms in arid regions of Southern Texas. The editor of THE NATIONAL NURSERYMAN had the privilege of examining these trees during the past summer and was very much impressed with the luxuriant growth and the heavy crops which they bore. It looks as if there was a future for date culture in that region.

THE APPLE CROP.

There appears to have been a good deal of a glut in the Chicago market during the latter part of September and early October. The Ozarks and Southern Illinois have turned out a lot of red apples this year, even more than growers anticipated. For a time the markets of the central West were unable to handle them, and large quantities shipped to Chicago in bulk were practically sacrificed. With the soft fall fruit out of the way confidence has been restored and the keepers are being placed in refrigerated warehouses. The New York crop, which ranks this year next to the Middle West crop in importance, is turning out splendidly. The quality is fine and the fruit is likely to keep well. The storm of the tenth and eleventh of October injured trees in the Lake Ontario counties and brought down many barrels of unpicked fruit, but the frost did no harm. On the whole it would appear that apple men, both dealers and growers, are enjoying a profitable year.

THE PECAN CROP.

All conditions favor a large crop of pecans this season. Texas growers are looking forward with confidence to the harvest. There are in that State about 800,000 wild trees, and about half that number of trees in orchards. The value of the pecan crop is about two and one-half million dollars to the State of Texas. One of the striking things in connection with it is that the seedling nuts sell at prices varying from three to six cents a pound, while the cultivated varieties run from twenty to fifty cents a pound. The following from D. C. Turnipseed, Flora, Ala., adds an interesting item to our knowledge of the profits from pecan culture:

"The pecan is a profitable crop if treated fairly. My grove consists of 1,500 seedling trees. It is twelve years old and has been no expense since planting. The soil was originally hickory growth. I cleared, terraced and planted it twelve years ago with nuts costing two dollars and fifty cents per pound.

"I have made profitable crops of cotton each year on the land, and have rented it for about four dollars per acre this year, reserving the crop of nuts. I gathered last year from some trees seventy-five to one hundred pounds of nuts, which sold readily at twenty-five cents a pound, or about twenty-five dollars per tree. This is a good revenue from these trees at a value of $250 per tree. I sold these nuts for table use. They weighed fifty or sixty to the pound. From my best trees I gathered forty pounds, which I readily sold for two dollars a pound, or eighty dollars for the crop from one tree. Many of these nuts weighed one-half ounce each, and measured three inches in circumference and two and one-half inches long. I sold others at one dollar per pound. Over ninety per cent. of the trees bear. This is, as I stated, from seed, which I think is very satisfactory."

Quiz Column.

LICENSE FEES.

EDITOR NATIONAL NURSERYMAN:

What can you tell us regarding the rights of nurserymen covering shipments into states which are now requiring nurserymen to take out licenses and furnish bonds before allowing shipments to enter; for instance, the state of Washington requires license to be taken out to the value of $5.00, and the furnishing of a bond to the amount of $1,000.00?

Has the Nurseryman's Association had any legal advice on cases of this kind? There is so much of it being done now in the different states, that we think it is time the Association should make a test case of it, and fight it out. Any information that you can give us will oblige, PENNSYLVANIAN.

ANS. The above letter raises a very important point. We note in looking over the laws governing the conduct of business and the transportation and shipment of nursery stock in the different states, that the following require licenses, or bonds, or both: Florida, license, $25; Idaho, bond of $1,000; Michigan, license fee, $5, bond, $1,000; Oklahoma, certificate, $5, duplicates, $1; Virginia, deposit of $20; Washington, license fee, nurserymen, $5, agents, $2.50, bond, $1,000; West Virginia, license fee, $10; Wyoming, license fee, $25, bond, $500; The above shows the interesting variety as to requirements exhibited by different states. Whether these laws would stand the test of interstate shipments we are unable to say. This is a question which might be investigated by the legislative committee. EDITOR.

EXPERIENCE WITH THE MICHIGAN LAW.

EDITOR NATIONAL NURSERYMAN:

We are not familiar with the condition of affairs in the state of Washington, for we do no business in that State and have not been interested, consequently have not investigated their legislature or its operation.

The Michigan Law requires a license fee of $5.00, together with a bond of $1000, on condition that the signer of the bond will faithfully observe all of the statutes of the state of Michigan covering the question of nursery shipments. One of the provisions of that statute requires fumigation. This applies to the foreign nurserymen and not to the citizens of Michigan.

Our attorneys advise that this was plainly unconstitutional, and an attempted restriction of interstate commerce, and a discrimination in favor of the citizens of the state of Michigan and against the citizens of other states.

We tried to arrange with the Michigan attorneys for a test case, but they declined to fight, although we carried a chip on our shoulder, consequently we think that they have very little confidence in the strength of their law.

We have paid the license because it is a small matter, and have filed bond with the slight change which obligates us to observe all the "lawful" requirements of their State, on the assumption that the fumigation section is not lawful and not binding.

CHASE BROS. CO., ROCHESTER, N. Y.

ASSOCIATION MATTERS.

INCREASE THE MEMBERSHIP, SAYS PRESIDENT HARRISON.

To the State Vice-Presidents.

Gentlemen.—It is necessary that our paid membership should be increased, and I appeal to each vice-president to look after his respective State and see that the new firms that are opening up become members, and that the old ones renew their membership. This will strengthen the Association and assist us in co-operative effort. We have some extra copies of the proceedings of last meeting, also the badge book, that they can secure as long as the supply lasts; either of these books is worth the $5 for the yearly subscription. All of the dead wood will be cut out, as it takes some cash to meet expenses. Our friends have subscribed nobly, but will not likely care to repeat the subscription. We should increase the membership sufficiently to cover the expense. Our watchword is "We are out for Business."

Very respectfully,

ORLANDO HARRISON,

EXHIBITS AT THE DETROIT MEETING.

Do the members of the Association realize the importance of aiding the exhibits made at each Association meeting? Do they realize the educational value of these displays? Detroit is central, is easy to reach, and will present an excellent opportunity of getting out a comprehensive display. Our members should see to it that the patriotic label, the progressive lithograph men, and those pushing the introduction of new fruits are not the only ones represented in the exhibit hall. Everything in season is eligible—fruits, fruit stocks, nursery trees, nursery devices, implements. and the like. The exhibit may be made one of the most valuable parts of the meeting. Plan now to do your part.

UNIFORM LEGISLATION.

The desirability of securing some uniformity in regard to the laws which affect the trans-shipment of nursery stock needs no argument. One has but to consult the varying requirements of the different States to see how the nurseryman is harrassed in his attempt to do business outside of his own State. License fees, deposits, inspection certificates, fumigation certificates, are varying factors in almost every State, and the nurseryman must needs have before him constantly during the shipping season a chart which will prompt him as to the requirements of each State. In some of the States a nurseryman is up against yards of red tape. As a rule, the nurserymen of these States don't want these regulations. Licenses and laws are put in by pettifogging lawyers, instead of being considered by broad-minded legislators. The committee having this matter of uniform legislation in hand will be glad to receive suggestions from those who have them to offer.

PROGRAM COMMITTEE AT WORK.

Already, the program for the Detroit meeting is taking shape. President Harrison is living up to his motto, "We're out for business," and is actively seconding the efforts of the committees in making early preparations for an instructive and interesting program. The ambition of these men is to make the Detroit meeting the most useful and successful in the history of the Association.

The program will be essentially practical. It will, as far as possible, be in the nature of an experience meeting. The practical side of nursery work will receive considerable attention. The scientific phases will also be treated, while the business aspects and the transportation end will be considered with that care their importance deserves. The program committee is composed of active men who will spare no pains, and who will work unselfishly to prepare a bill of fare which will draw the biggest gathering the Association has ever had. Members are requested to send suggestions to the members of the committee.

SUGGESTIONS FOR THE QUESTION BOX.

1st. Do you request the party growing your seedlings not to dig until they are ripe? What is your opinion about digging them when they are green?

2nd. What grade of apple seedlings have you found most desirable for grafting?

3rd. What apple seedlings are most desirable for budding?

4th. What success have you in grafting Mazzard cherry?

5th. Do you follow peach after with peach, or apple with apple without sowing a crop of cowpeas or crimson clover; if so, with what success?

6th. Do you "glove" your apples? If so, how high from the ground? Once, or more?

7th What is the best plum stock?

8th. What made Fredonia, N. Y., famous for growing grapevines? The soil, or the men back of the vines who made a specialty of one line and grew good plants?

9th. Who has made a single dollar's profit growing apples for the wholesale trade during the past four years?

10th. Do you grade your trees in the field or in the packing house? Which is preferable and least expensive?

GERMAN TARIFF.

Secretary Root is arranging to send a special agent to Germany for the purpose of discussing tariff matters with that government. It appears that the Secretary of State has certain powers entrusted to him in this connection, and may be able to modify our tariff regulations so as to meet the concessions desired by the Germans. If this is possible, then some of the restrictive measures now enforced by the German government and militating against the shipment of our fruit may be removed. A glance at the exports of our fruits to Germany last year compared with those of previous years will at once show how their restrictive measures have influenced our trade.

PRESIDENT HARRISON URGES THE VENTILATION OF GRIEVANCES AGAINST TRANSPORTATION COMPANIES.

COMMITTEES ACTIVE.

Editor National Nurseryman:

I should be glad if you will give place to the following in your next issue. I wish to inquire of the nurserymen of the country if there are any who are entirely satisfied with the way in which express companies handle their packages. If not, what specific complaints have you to enter regarding rates or overcharges?

I have a complaint from one of the largest nursery patrons of the express companies, stating that he believes there are more abuses committed by the express companies than by the freight lines; that overcharges are frequent and that irregularities in charges are common; that there is a lack of uniformity; and that unless the shipper is constantly on the watch, he is likely to pay different amounts for shipping the same package to the same point at different times. One of the reasons for this is, that there are so many classifications, and agents are likely to become confused, or make mistakes. Then again, the classifications are open to varying interpretations, and different shipments of the same article to the same point may be forwarded under different classifications and under different charges. The net result is a loss to the shipper.

I will be particularly glad to get from nurserymen of the country their individual experiences as to how overcharges are avoided on express matter, and in the case of lost goods, how do you succeed in collecting their value? Again, do you get a refund for your customer when he reports that he has paid regular merchandise rates, which are greatly in excess of the schedule?

What is your practice when goods are refused because the express charges are manifestly incorrect or excessive? In my own experience in shipping small fruits, berry plants, and the like, I have met with a great deal of complaint along this line, and I will be especially glad to hear your experience and your suggestions as to the best solution of the difficulties.

I wish also to inform our members that the finance committee has been doing some lively hustling. You will observe in another column of this issue that ninety-eight nursery firms have subscribed to the maintenance fund. No one should be left out, and any amount, large or small, is thankfully received. Be assured that not a single penny will be spent unless there is good reason for spending it.

You will also be interested in knowing that a memorial is being prepared by the legislative committee and our special business representative, Mr. Albertson, asking the various State legislatures to adopt similar measures, so that we may have greater uniformity in laws affecting the business of the nurseryman. Let us all work for this uniformity in the matter of inspection, in the matter of grading, in the matter of transportation, classification, and the like.

The committee having the program in hand for the Detroit meeting are working steadily and making excellent progress. Every effort is being put forth to get new material and practical men. A committee on exhibits will call on our members during the year, and it is hoped that they will meet with a liberal response. We shall look for the committee on publicity to advertise the meeting widely, and we may count upon the committee on entertainment, headed by Mr. Ilgenfritz, to provide for the material comforts of all those who will attend the meeting in Detroit.

Orlando Harrison,
President American Association
of Nurserymen.

Our Book Table.

The editorial office is in receipt of a unique little pamphlet entitled "Lige; the Darkey and the Mule in Alabama." This brochure, issued by the Alabama Nursery Company, Huntsville, for private circulation only, is a most interesting and artistic presentation of the characteristics of two great labor factors in the South—the mule and the darkey. The incident which the pamphlet chronicles is not peculiar to Alabama or to the South, but the coloring is the distinctive property of that region. The Alabama Nursery Company is to be congratulated on this unusual and attractive type of advertising.

CATALOGUES RECEIVED.

Huntsville Wholesale Company. Bulletin for October. Prices to the trade on fruit tree stock.

Ketten Brothers, Luxembourg, being a catalogue of roses, in which over two thousand varieties are listed.

Otto Katzenstein & Co., Atlanta, Ga. Trade price list, tree and shrub seeds, roots, bulbs, 1906-1907.

W. Fromow & Sons, Surrey, England. Abridged trade offer of nursery stocks, 1906-7.

Elizabeth Nursery Co., Elizabeth, N. J. Bulletin of roses, spireas, hydrangeas, etc.

T. V. Munson & Son, Denison, Texas. Catalogue and price list for 1906 and 1907.

AMERICAN-GROWN MAHALEB STOCKS.

It is not generally understood that a few firms in this country are making a specialty of growing cherry stocks. There seems no good reason why cherry stocks of the Mazzard as well as the Mahaleb type should not be successfully grown in our climate, provided we prevent leaf-spot diseases, which may easily be done by spraying with Bordeaux mixture. We have recently had occasion to know that excellent Mahalebs were grown last year and again this year in Kansas, and we are pleased to draw attention to the success which attended the efforts of the Winfield Nurseries, in the production of this important line of nursery stock. We understand that the above company has already sold some two million Mahaleb stocks, and have still a quantity to offer the trade.

Correspondence.

PERTINENT QUESTIONS ON AN IMPORTANT PRACTICAL MATTER.

EDITOR NATIONAL NURSERYMAN:

I believe it is a very appropriate season to make some inquiries of representative nurserymen on the methods of handling stock during the hot, dry falls. Some twenty years ago, Mr. Gaines, of Ohio, mentioned the evils of early fall digging, field exposure, drying in transit, and all that, and he said it would be a good thing, not only for the planter, but for the nurseryman as well, if no trees at all were handled in the fall; and if we say early fall, it is just as true to-day as then. However, nurserymen are better fixed now than they were at that time, in the handling of trees, but there are some nurserymen not so fortunate still, and some regions woefully deficient in packing houses.

Some years ago we received a car of cherry that were bone dry from exposure. Last fall a car of Japan plum came in, roots burned brown. Myrabolan are even more tender than pear, and they are tender enough. This car of trees was hauled five miles, weather hot. We saw several lots of peach trees from Tennessee country last fall, roots as brown as if they had been fired. Not so many years ago, some of the largest packers did their biling from the open ground, trees not even heeled in, exposed not only to sun, but dry winds. One of the good northern firms recently used a lithograph showing the trees graded and bundled in the wind row in the field. How long are they exposed to the sun without serious injury? How many nurserymen even use tarpaulin in covering wagons in going from field to packing house. How many have sufficient water to keep trees moist? The man who plants the trees takes a good many chances, suffers loss, and all that. And while there may be great carelessness on planter's part, how about the nurserymen?

Trees are perishable and hard to keep handled right, and planters not infrequently may put out a thousand without scarcely the loss of a tree; but everything is done just right in the nursery and orchard as well. Losses discourage planters, nurserymen suffer; therefore we think very timely this agitation for greater care and proper handling of trees.

Only last week we saw nurserymen digging peach trees, etc., green as gourds, but their dealers must pack early. What can the planter expect from such trees? Dry falls and cold winters, at best, are hard enough on trees not established. But there are too many growers and nurserymen whose systems are very far from perfect; in fact, are most imperfect.

Along these same lines, winter shipping and packing is important. So it strikes us we need education along these lines, and the NATIONAL NURSERYMAN will be the medium through which we may learn.

NOT PERFECT, BUT TRYING TO IMPROVE.

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Utah Nursery Co., Salt Lake City, Utah	5.00
W. N. Scarff, New Carlisle, Ohio.	5.00
Wild Bros. Nursery Co., Sarcoxie, Mo.	5.00

AN ORCHARD ON ILLINOIS BLACK PRAIRIE SOIL.

It was the privilege of the writer recently to visit a very interesting orchard enterprise located on the black prairie soil of central Illinois. In this region where corn is king, it is not expected that the apple is a staple or even a side crop, so that this enterprise instituted by Senator Dunlap near Champaign has more than local interest and value. The area of the orchard is some 70 or 80 acres. It is made up of three or four blocks varying from 10 to 18 years of age. The varieties are Ben Davis, Grimes Golden, Jonathan, Willow Twig, and a few trees of Minkler, Duchess, and Astrachan. The soil is of the typical black, deep, rich prairie loam characteristic of this corn belt and underlaid with yellowish sand containing a considerable mixture of clay. The topography is that of the typical prairie region, sloping slightly from north to south.

The culture given has consisted in using the disc harrow both ways in the rows during the fore part of the summer and trimming with a scythe such grass and weeds as the harrow did not reach. No cover crops have been used, no fertilizers have been employed. The trees have had little or no pruning. They were headed low, averaging perhaps not over two feet where the head was started and as the trees developed, the lower branches in time, drooped to the ground and have been removed as occasion demanded. In many cases these lower branches touched or rested upon the ground when trees were at all heavy laden with fruit. Very little thinning, if any at all, has been practiced.

Now for results: In the first place, the experiment has demonstrated the feasibility of growing fine trees on this soil. They have not borne heavily any year since they came into bearing seven or eight years ago but they have given a moderate crop and as a financial proposition, they have been profitable for the last seven or eight years. At the present writing, August first, the trees are carrying a fair to heavy load of fruit, which under favorable conditions will mature so that this year's crop promises to do much towards improving the financial standing of this orchard for several years past.

TROUBLES—PAST AND PRESENT.

A few difficulties recognized as being particularly characteristic of this region have crept in. Insect and fungous diseases have been more or less apparent. Some types of blight difficulties occasionally called "cankers" have been noticed on the Willow Twig variety. Here and there in the orchard the injurious influence of an impervious subsoil has been apparent in the killing out of the trees. On the whole the experiment serves to demonstrate or complete an interesting possibility of growing these varieties on this soil in a region where it has been popularly supposed the grower was quite out of the fruit belt and the land was fit only for staple farm crops. Experiments of this kind are not only worth while, but are of great value to the community at large. W. F. H.

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Abies Concolor	Picea Pungens
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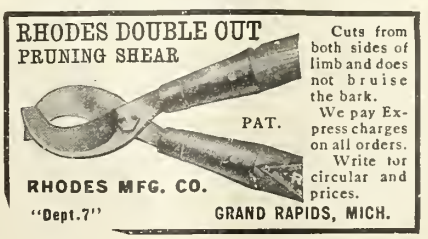
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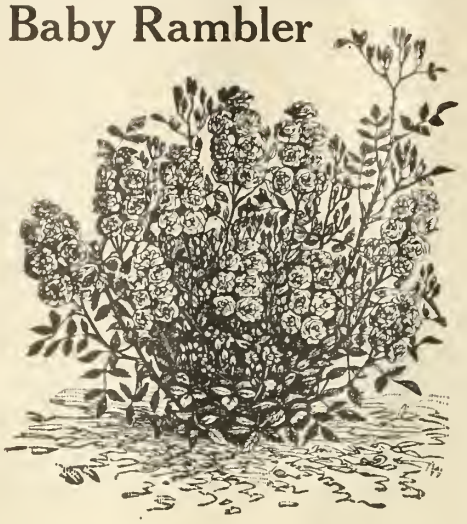

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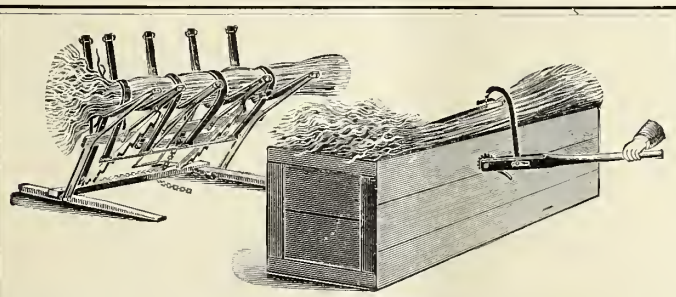

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GROWERS of hardy *Ornamental* and *Forest Trees*, *Evergreens* and *Shrubs* (frequently transplanted); of all the leading *Conifers*, recently transplanted, with very good rootballs; also *Seedlings of Forest Trees; Azaleas*, *Rhododendrons*, *Clematis*, *Paeonies*, *Roses*, etc. Packing attended to with the greatest care. For latest TRADE PRICE LIST and all orders address our American Agents:

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LEVAVASSEUR & SONS

NURSERIES AT USSY and ORLEANS, FRANCE.

Wholesale Growers of Fruit Tree Stocks, Ornamentals, Evergreen Seedlings, Etc. Best Grading, Quality and Packing. Largest shippers to this country. All leading nurserymen are our regular customers. Prices right. Send your list of wants for prices before buying elsewhere to

HERMAN BERKHAN, SOLE AGENT.
133 READE ST., NEW YORK.

Sole Agent for UNITED STATES AND CANADA.

BLACK LOCUST

By the Millions. They HAVE to go.

You know what that means.

CALBRAITH NURSERIES

DE WITT HANSEN, Manager, Fairbury, Neb.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,
JACKSONVILLE, FLA.

The Willadean Nurseries

offer for FALL, 1906 and SPRING, 1907

One of the most complete lines of

Fruit, Shade and Ornamental Trees,

Shrubs, Roses, Perennials,

Seedlings and Tree Seeds

to be found South of the Ohio River.

Special prices on the following: BLACK LOCUST SEEDLINGS, HYDRANGEAS, SNOWBALLS, LILACS, SPIREAS, BERBERRIS, and many other Shrubs, AMERICAN LINDEN, ELMS, MAPLES, ASH, SYCAMORES and TULIP TREES. Trade-lists ready in September.

THE DONALDSON CO., Warsaw, Kentucky.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of
FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application.
Write direct, I have no agent.

WANTED

A young man between 25 and 35 years of age who has had some experience on an Ornamental Nursery and who is interested in the work. Applicants must be of sober habits, industrious, and not afraid of work, and possess executive ability. A German, Hollander or Swede preferred, but any hustler will be considered.

For the right party this will be a very good position, on one of the largest Ornamental Nurseries in the Country. Location 60 miles from New York. 30 Miles from Philadelphia. One mile from a city of 85,000 inhabitants. Reference required.

Apply at once stating nationality and religion and whether married or single, last employer and wages expected.

X. M. C.
Care NATIONAL NURSERYMAN

COMMERCIAL NURSERY CO.

WINCHESTER, TENN.

offers to the trade 50 thousand fine 2-year Apple; 40 thousand year old Peach, June buds, Cherry, Grapes, Raspberries, Seedlings Pecans from fine nuts. Clean stock; it will pay you to get our prices or come and see us.

Commercial Nursery Co., Winchester, Tenn.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.
Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

WHEELOCK & CLARK,
FREDONIA, N. Y.
Grape Vines and Currant Plants
A SPECIALTY.
CORRESPONDENCE SOLICITED.

FOR SALE
One-third Interest in the Fonthill (Canada) Nurseries.
Our Mr. Morris wishes to retire through ill health and old age. These Nurseries comprise eight hundred acres and are thoroughly up to date; cellars, packing houses, etc., on grounds. Business a flourishing one and prospects for the future better than ever. Fifteen to twenty thousand dollars cash down, and balance on security for any reasonable length of time. This is a grand chance for a practical nurseryman. Address, for particulars,
STONE & WELLINGTON, Toronto, Ontario.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

PEACH SEED

Headquarters for Peach Seed from all sections and all grades and prices.
We make a Specialty of Virginia Natural Seed. Send for Catalog.

W. W. WITTMAN & CO.
P. O. Box 451
Established 1859
117 Hanover St., BALTIMORE, MD.

APPLE SEED

I have to offer a limited supply of American seed from crop of 1906. Write for prices.

F. H. McFARLAND, - Hyde Park, Vermont.

The Central South

The abode of Soft Winds, Persistent Sunshine and Gentle Rains; the land of Beauty, Happiness, Flowers, Contentment and Health.

The Territory served by the Louisville & Nashville Railroad, stretching from the Ohio River to the Gulf.

Throughout this wide area fertile land is yet to be had at—from a Northern standpoint,—VERY LOW PRICES.
From some of this land an average of $416.95, net, was made last year on Strawberries.
From Cantaloupes, $250.00.
Peaches, Apples, Grapes, return handsomely. Cattle need but little winter feed.
Write me for Facts and Figures.

G. A. PARK, General Immigration and Industrial Agent.
Louisville & Nashville R. R.
LOUISVILLE, KY.

When writing to Advertisers mention The National Nurseryman.

TIVERTON NURSERIES, Tiverton, O.
Coshocton Co.
Have a fine lot of 2, 3 and 4 year apple in 40 varieties to offer for fall and spring. A special lot of 2000 4 year York Imperial at right price. Also Red June, Abundance and Burbank plum. Carolina P. 1 year up to 10 ft. List ready now.

There are a few Nurserymen
who do not know about our plan of putting up nursery orders of

Fall Bulbs and Plants

carefully packed and labelled ready to be delivered.
If you are interested, we shall be glad to give full particulars and send our new

Florists' and Nurserymen's Wholesale Catalogue

Our stocks are complete and are the best that can be produced.

Vick Quality is Superior Quality

Write to us to-day. Please mention that you are a Nurseryman and saw this ad. in the NATIONAL NURSERYMAN.

JAMES VICK'S SONS, Seedsmen
Rochester, N. Y.

When writing to Advertisers mention The National Nurseryman.

Established 1780.

ANDRE LEROY NURSERIES

Brault & Son, Directors, Angers, France

ARE NOW BOOKING ORDERS FOR

FALL, 1906,

For nursery stocks, of their own growing, grading and packing
For quotations apply to

ANDRE L. CAUSSE, Sole Agent,
105-107 HUDSON ST., NEW YORK CITY.

W. T. HOOD & CO.

Old Dominion Nurseries, Richmond, Va.
Nurseries: Henrico and Hanover Counties.

OFFER FOR FALL 1906 AND SPRING 1907

Peach Trees—Budded on Natural Peach Seedlings.
Std. Pears—Nice assortment, Keiffer especially.
CALIFORNIA PRIVET– Fine Plants.
And General Line of Nursery Stock.

We have on hand about 200 Bushels Natural Peach Pits, crop 1905, and expect in due season our usual supply of this year's crop. We have been handling these seeds for years with universal satisfaction.

Correspondence solicited.

L. Green & Son Co.

Western Reserve Nurseries,

PERRY, LAKE CO., OHIO.

Offer for fall 1906 and spring of 1907 a very complete assortment of fruit trees of all kinds; an especially fine lot of peach trees in all grades and varieties, likewise pear and plum. Have a strong surplus of native plum both on plum and on peach. Ornamental trees in complete assortment, also weeping trees, shrubs, vines, roses, small fruits and evergreens.

Have a strong surplus of American Sweet Chestnut in all sizes, also a good assortment of herbaceous and perennial plants.

Correspondence solicited and inspection invited.

HEALTHY TREES

At BARGAIN PRICES

APPLE	PEACH
CHERRY	PEAR
PLUM	QUINCE

We also have at all times an especially fine line of ORNAMENTAL TREES, SHRUBS and EVERGREENS. Will also have in quantity the following Forest Seedlings: BLACK LOCUST, CATALPA, SPECIOSA and OSAGE ORANGE

Tell us what you want to buy and we'll make our prices interesting

The Geo. Peters Nursery Co.

TROY, OHIO.

UNIVERSITY AVENUE NURSERIES

FOR FALL OF 1906.

WE OFFER AS FOLLOWS:

Pæonies. *Not a Phantom* but a real self-contained fine collection in choice, best kinds. None better; few as good.

Baby Ramblers. In 2 years, *extra heavy* field grown plants. *The best we ever saw.*

Clematis. Two-year, field grown, Andre, Duchess of Edinburg, Henreyi, Jackmanni, Ramona, Paniculata.

Ampelopsis Veitchii. Two-year, extra strong field grown.

Dutch Pipe. Three years, very strong. Our usual grade.

Roses, H. P's. Crimson Ramblers, Dorothy Perkins, other Climbers, and Mosses.

Shrubs. All strong plants, A full desirable collection.

Syringa, Purpurea Maculata. New. The spotted Mock Orange. Exquisite, perfect perfume.

Vewnica Longiflora, subsessilis. The *New Blue Bird Flower.* A grand *hardy* border plant.

Gooseberries Downing and Houghton, 2 years, fine plants, etc.

JOHN CHARLTON & SON,

ROCHESTER, N. Y.

Heikes'—Huntsville—Trees

HUNTSVILLE
Wholesale Nurseries

HUNTSVILLE, ALA.

We offer for Fall of 1906 and Spring of 1907, Pears, Plums, Cherries, Peaches, Roses, and Pecans in large quantities as usual.

SPECIALTIES.

KIEFFER PEARS—Which we grow in larger numbers than any other nursery in the United States. Our stock of two years old for the Fall of 1905 and Spring of 1906 counted up 250,000, and all were sold. Our stock for the coming season will exceed that of last, and our prices will be reasonable.

PEARS, Assorted, Standard—Our assortment comprises Koonce, Early Harvest, Le Conte, Howell, Alamo, Bartlett, Smith's, Garber, Duchess d'Angoleme, Seckel, Flemish Beauty, Kieffer, Japan Golden Russet, Magnolia, Beuerre d'Anjou and Lawrence.

CHERRIES—We are also the largest growers of Cherries; but our stock of two years old for this season will be comparatively sho t.

PEACHES—We also excel in peaches, and of these we will have both in one year and June buds the largest stock we have ever grown.

PLUMS—A light stock of these for th s year.

PECANS—We continue to make a specialty of grafted Pecans. These are grown at our branch nurseries at Biloxi, Miss. where the conditions are very favorable for their propagation.

ROSES, Budded—These are also grown at Biloxi, Miss., because of the favorable conditions found there for their propagation. Our stock is large, consisting principally of Hybrid Perpetuals, Mosses, Crimson Rambler, Baby Rambler and Marechal Neil.

See Our Price List for Particulars.

WORLD'S FAIR—We were awarded a Grand Prize, a Gold Medal, and a Silver Medal on our exhibits at the World's Fair, St. Louis.

Address, W. F. HEIKES, Manager,
HUNTSVILLE, ALA.

Nebraska Grown

AMERICAN PLUM, EUROPEAN PLUM, APPLE, PEAR, PEACH AND CHERRY TREES.

Large Stock of Shade and Ornamental Trees, Snowball, Syringa Spirea, Deutzia, etc. Forest Tree Seedlings well graded and prices right.

Send list of wants to

YOUNGERS & CO.

GENEVA, NEBR.

Apple Trees and Apple Seedlings

With usual supply of Cherry, Peach, and Plum Trees for Fall, 1906 and Spring, 1907.

GOOD STOCK,
GOOD GRADES.

L. R. TAYLOR & SONS,
TOPEKA, KANSAS.

WABASH R. R.

offers unexcelled service to the

WEST

FIVE DAILY VESTIBULED TRAINS
Buffalo to Chicago

FOUR DAILY VESTIBULED TRAINS
Buffalo to St. Louis
Kansas City and Omaha

FREE RECLINING CHAIR CARS
PULLMAN SLEEPING CARS
WABASH DINING CARS

Full information regarding rates, etc., cheerfully given. Address

C. S. CRANE, G. P. & T. A.,
St. Louis, Mo.
JAMES GASS, N. Y. S. P. A.,
287 Main St., Buffalo, N. Y.
R. F. KELLY, G. A. P. D.,
287 Main St., Buffalo, N. Y.

When writing to Advertisers mention The National Nurseryman.

Everything in

Small Fruit Plants.

Ask for price list.

W. N. SCARFF, New Carlisle, O.

PAN-HANDLE NURSERIES,

GREENFIELD, IND.

Apple, Pear, Plum, Cherry, Peach

IN CAR LOTS.

We also grow a general line of Nursery Stock including

Shade and Ornamental Trees, Shrubs, Evergreens, Vines, Roses, Rhododendrons, etc., etc.

Catalpa Speciosa and Black Locust Seedlings.

Nurserymen and Dealers' Complete Lists a specialty.
Let us price your want list.

J. K. HENBY & SON.

June Buds for Cash

I offer (100,000) one hundred thousand June budded peach trees. Half Elberta 1 to 1½ ft., 1½ to 2 ft., 2 to 3 feet grades at an exceptionally low figure FOR CASH. Write to-day. This is a BARGAIN for somebody. Address

JAMES CURETON, Proprietor
THE CURETON NURSERIES, Austell, Cobb Co., Ga.

Surplus Stock, Spring 1906.

25,000 Eldorado Blackberry,
25,000 Peach, 1 year, 2 to 3 feet,
10,000 " " 1 to 2 feet,
10,000 " " 3 to 4 and 4 to 5 feet,
15,000 " June Buds, 6 to 12 inches.
100,000 Asparagus, 1 year,
1,000,000 Strawberry Plants.
A general line of other stock in small quantities.

D. S. MYER & SON, Bridgeville, Del.

Forest Tree Seedlings

We offer for Fall or Spring delivery a large stock of Forest Tree Seedlings, all nursery grown, well rooted and well graded.

BLACK LOCUST 8-12, 12-18, 18-24 and 24-36 inch grades.
HONEY LOCUST 8-10 inch grades.
HARDY CATALPA 8-12, 12-18, 18-24 and 24-36 inch grades.
RUSS. MULBERRY 8-12, 12-18, 18 24 inch, 2-3 and 3-4 foot grades.
ASH (white) 8-12, 12-18, 18-24 and 24-36 inch grades.
BOX ELDER 8-10 inch grades.
WHITE ELM 8-12, 12-18 and 18-24 inch grades.

Also Butternut and Persimmon seedlings, large shade trees and flowering shrubs. Prices will be right ; we make them ourselves.

GERMAN NURSERIES,

Carl Sonderegger, Prop. Beatrice, Neb.

MAHALEB

By the MILLION

grown annually by us on Mahaleb Ground, which produces the very best of Stocks.

Mahaleb not dug until December, when

Fully Matured

and shipped out from our storage building in paper lined boxes and refrigerator car service.

Two Million Now Sold to Largest and Best Cherry Growers. While Mahaleb Stocks are very scarce we still have some fine stocks. Write for Prices.

1,400,000 Black Locust Seedlings in All Grades.

WINFIELD NURSERIES

Office: WINFIELD, Kansas.
Branch Plants: WELLINGTON, Kansas; ROCK, Kansas.

COOPER & MONCRIEF, Proprietors.
WINFIELD, Kansas.

EASTERLY NURSERY CO.,

CLEVELAND, TENN.

OFFER for Fall of 1906. Large stock 2 year Apple in good assortment. One year Cherry, Peach and Pear. Write for prices.

A BARGAIN

IN STANDARD PEARS. Extra size, 6 to 7 ft.; 1 inch and up 5 to 6 ft.; 3-4 and up. Mostly Bartlett.

Can also furnish a few of the leading varieties.

It will be worth while to get our prices before buying elsewhere. Address,

PIONEER NURSERIES COMPANY,
Salt Lake City, Utah.

ESTABLISHED 1868.

F. W. Meneray Crescent Nursery Co.

(INCORPORATED)

COUNCIL BLUFFS, IOWA.

Native Ameracana Plum Seedlings

The only good Grafting and Budding Stock for Ameracana Plums. Cherry, Plum, Peach and Apple Trees, Grape and small fruits of all kinds.

Large growers of Pæonies, 290 named Varieties

Hardy Shrubs and Ornamentals. Car lots a specialty.

HIBISCUS SYRIACUS MEEHANII

We now offer to the trade our new hardy variegated leaf Hibiscus Syriacus Meehanii. This plant attracted much attention when exhibited at the American Nurserymen's Convention at West Baden, Ind., and American Florists' Exhibition at Asheville, N. C. Foliage beautifully variegated; never sunscalds or reverts to the greens; flowers single, very large satiny lavender; blooms during four months; prices on application. Orders booked now.

P. J. BERCKMANS CO., (Inc.,) Fruitland Nurseries, Augusta, Georgia.

BLACK LOCUST

By the Millions. They HAVE to go.

You know what that means.

CALBRAITH NURSERIES

DE WITT HANSEN, Manager, Fairbury, Neb.

Budded Pecan Trees

Japan Persimmon, Japan Walnut, and Muscadine Grape Vines . .

ARE LEADERS TO THE TRADE THIS YEAR.

We also offer a general line of Nursery Stock, including **Fruit and Ornamental Trees, Shrubbery, Field-Grown Roses, Etc., Etc. Prices always right.**

THE GRIFFING BROS. CO.,

JACKSONVILLE, FLA.

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One of the most complete lines of

Fruit, Shade and Ornamental Trees,

Shrubs, Roses, Perennials,

Seedlings and Tree Seeds

to be found South of the Ohio River.

Special prices on the following: BLACK LOCUST SEEDLINGS, HYDRANGEAS, SNOWBALLS, LILACS, SPIREAS, BERBERRIS, and many other Shrubs, AMERICAN LINDEN, ELMS, MAPLES, ASH, SYCAMORES and TULIP TREES. Trade-lists ready in September.

THE DONALDSON CO., Warsaw, Kentucky.

Victor Détriché

NURSERYMAN, ANGERS, FRANCE

Grower and Exporter of FRENCH NURSERY STOCK.

A great assortment of fruit trees such as Mahaleb, Mazzard, Myrobolan, Pear, Apple, Quince, Manetti, Rose, Multiflora, Forest Trees, Ornamental Shrubs and Evergreens, Conifers and Roses.

Catalogue and prices free on application. Write direct, I have no agent.

FRITSCH & BECKER,

SEED MERCHANTS,

Grosstabarz, Germany.

Exporters of European Forest Trees and Fruit Tree Seeds.

Specialties: Black and Honey Locust, Mulberry, Dog Rose, Apple, Pear, Wild Cherry, Mahaleb Cherry, Plum, Quince and other seeds.

Importers of American Forest Trees Seeds.

Correspondence Solicited.

P. OUWERKERK,

No. 216 Jane St., - Weehawken Heights, Hoboken, N. J.

Rhododendrons, Clematis, H. P. Roses, Hardy Azaleas, Pæoneas, Magnoleas, Box Trees, Fancy Conifers, Hydrangeas, and Shrubs, our specialties at our HOLLAND NURSERIES. Some of the goods on hand here during the packing season.

JACS. SMITS, Ltd.

NURSERIES, Naarden, (Holland.)

Headquarters for Hardy Rhododendrons, Hardy Azaleas and Evergreens, Boxwood, Paeonies, Roses, Hydrangea P. G., etc.

Ask for catalogue and send your list of wants to our New York office, No. 12 West Broadway.

RALPH M. WARD & CO., Representatives.

We offer now exceptionally cheap first-class Standard Roses worked on Rugus.

LABELS FOR NURSERYMEN.

BENJAMIN CHASE, Derry, N. H.

Peach stocks grown by the transplanting method, ready for budding. Note the uniformity. Mr. Morris in foreground. Fonthill Nurseries, Morris & Wellington, Fonthill, Ont., Can.

The National Nurseryman.

FOR GROWERS AND DEALERS IN NURSERY STOCK.

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Vol. XIV. ROCHESTER, N. Y., DECEMBER, 1906. No. 12.

THE FONTHILL NURSERIES, FONTHILL, ONT.

A NOTED FIRM OF CANADIAN NURSERYMEN, DOING AN EXTENSIVE WHOLESALE AND RETAIL BUSINESS, SITUATED IN THE FAVORED NIAGARA PENINSULA OF CANADA.

[Written and Illustrated by our Special Correspondent.]

We are glad to present our readers with a descriptive sketch—inadequate, it is true—of one of the best known and most progressive of the Canadian nursery companies. Notwithstanding tariff restrictions, this firm is able at times, owing to peculiar economic conditions, to offer surplus lists to the trade on this side of the international boundary. We take pleasure in thus formally introducing our northern brethren to those in the circle of the National Nurseryman whom they have not met.—Ed.

The narrow strip of land located between the overlapping ends of Lakes Ontario and Erie has been very well denominated "the garden spot of Canada." In this region the most southerly possibilities of fruit growing may be attempted. It was in a little garden in the old town of Niagara on the Lake that a Mr. Pafford, a former mayor of the old town of Niagara, grew and ripened figs, which brought forth exclamations of amazement from visitors at the World's Fair in Chicago, in 1893. This entire area, regulated as it is by the tempering waters of the two lakes, is probably one of the safest places in all Canada to grow such fruits as need equable and relatively high temperatures. The peach and the grape are among the staple crops of the region. The whole lake level area from the Falls to Hamilton around at the eastern end of the lake is a specially favored region.

Our interests in this immediate connection lie towards the western end of the peninsula, and near the Lake Erie side. Here the topography of the country is practically divided into two levels, the lower a former lake level, the upper a plateau, which in the early history of the country

Apple trees by the hundreds of thousands. The camera did not touch the boundaries. The Fonthill Nurseries, Morris & Wellington, Fonthill, Ont.

A nice block of Bartlett and other varieties of pear buds at two months' growth.

existed undoubtedly as an island. The soil is a pleasant mixture of clay and clay loam on the bottom level, while on the higher altitude, sand and sandy loam with variations prevail.

The region about Welland, where the subject of our sketch is located, is an exceedingly interesting one, not only historically, but geologically and agriculturally.

About thirty years ago, there came into this section a young Welshman whose previous life and training had been spent in mercantile lines. The confinement incident to business of this kind had impaired his health, and he found that an outdoor life was imperative. This man was Mr. Edward Morris, senior, and now retiring member of the firm of Morris and Wellington. Mr. Morris, with the intuition of a natural plantsman, succeeded in growing small fruits in a manner at once pleasant and profitable. The success of his enterprise attracted the attention of a practical nurseryman from Rochester, New York, a Mr. Stone, and later, a specialist in ornamental shrubs, Mr. W. E. Wellington. A partnership was formed between these three. Mr. W. E. Wellington is a man of wide business and commercial training. As the business widened and took on wholesale phases, Mr. Wellington located at Toronto, where for a number of years he has maintained his headquarters for the management of the large retail business which has been developed.

From this small beginning, with bush fruits, thirty-five years ago, there has grown up a large and successful business. Each year has seen the addition of some important branch of nursery enterprise, until at the present time the business is complete, in that it covers with great minuteness all the varied activities of a fully-equipped growers' establishment for the production of fruit and ornamental plants. From the modest plot of a few acres, which marked the beginning of the business, lands have been added and new ground acquired, until now fully eight hundred acres are employed, one year with another, in the growing of stock to supply the demands of their large and well-established trade.

The wholesale end of the business is managed entirely from Welland, with P. O. at Fonthill, where Mr. Morris has lived and worked these many years. Mr. Morris has come to be recognized as one of the most skillful and expert propagators of nursery stock in Canada, and his knowledge of different methods of propagating fruits and ornamentals has greatly aided in the rapid development of the home plant. Death removed Mr. Stone a number of years ago.

The substantial brick frost proof packing and storehouse. Fonthill Nurseries.

The office is located in an attractive site, tastefully surrounded with some of the rarest specimens of ornamentals which one is likely to see in any part of the northern country. At a very early time, importations of European ornamentals, both of shade trees and shrubs, were made; specimens were planted on the home grounds, and these have had time and opportunity

A group of ornamentals near the Welland office. Cutleaf and purple beach, weeping birch, Reitenbach's maple and other rare forms. Fonthill Nurseries, Ontario, Can.

to show their qualities of adaptation and beauty. There is now excellent opportunity to study these specimens, and those interested in that phase of landscape work should realize that a splendid arboretum has thus been provided by the enterprise of this firm.

A field of the bush fruits when currants and gooseberries are layered in wholesale quantities. Fonthill Nurseries.

We were much interested in the provisions made for handling stock. These were unique and quite unusual. A large and substantial brick packing house, two stories in part, provides ample space for storing stock and handling it in winter. The herbaceous and shrub department is distinct from the tree department, and on an upper floor. The billing department is adjacent to this. The features of the cellar are those which are found in the best arranged storing house. One of the outside features which struck us as being specially desirable was a plot of three or four acres in extent on gently sloping, well drained, friable ground, entirely surrounded, except where entrance and exit were demanded, by a Norway spruce hedge which has now grown to the height of twenty-five or thirty feet, and formed an impenetrable wind-break and effective shelter belt for the grounds. Within this enclosure, which is provided with wagon scales and a checking stand, overflow stock can be handled during the season of greatest rush with a minimum of injury and a maximum of expedition. It is the presence, or lack of facilities of this kind that has much to do with the condition of the stock when it reaches the hands of the planter.

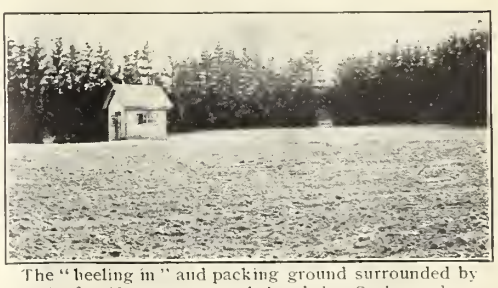
Thousands of hydrangeas, both standards and bush form, are grown to accommodate the patron. Fonthill Nurseries.

In driving over the extensive grounds of this nursery, we noted great blocks of well-grown apple stock, of well-trained pear trees; but the extent and variety of the ornamental stock interested us particularly. It is especially full in coniferous and deciduous trees. Very few nurseries propagate the leading ornamental shrubs so extensively as this firm does. The specialty which marked the beginning of the firm has never been dropped, namely, the growing of small fruits. Currants, gooseberries, raspberries are propagated on a large scale.

In the line of stone fruits we noted some large blocks of one and two-year-old cherry and plum. The cherry has come to be regarded as a special crop among nurserymen, and many prefer to buy it instead of growing it; but Morris & Wellington have justly acquired a reputation for producing an excellent grade of both sweet and sour cherries. In growing peaches, Mr. Morris has practised the European system of transplanting the sprouted seedling, and by this method he secures better roots, and as the accompanying illustration proves (see frontispiece), achieves a noted success in regard to the uniformity of his stock and the excellent stand secured. The retail end of the business has grown proportionately quite as rapidly as the wholesale. This, as previously stated, is under the direct management of Mr. W. E. Wellington, who maintains an extensive set of offices in Toronto, from whence the large army of salesmen is directed. The catalogue issued by this firm is one of the fullest and most complete which comes to our desk. In the opening up and colonization of the northern part of Ontario and the settlement of the great northwest provinces, there has grown up a greatly increased

A block of choice conifers with packing ground wind-break in background. Fonthill Nurseries.

Budded cherries showing two months' growth on left—apple seedlings on right. Fonthill Nurseries.



The "heeling in" and packing ground surrounded by its fine Norway spruce shelter belt. Scales and checking house. Fonthill Nurseries.

Mr. W. E. Wellington.

demand for plants which bring fruit, as well as an expression of homelikeness, to the settler's abode. In this increased demand for nursery stock, Morris & Wellington have had a generous share.

It may be stated, in closing, that this firm has always contributed an important part to the horticultural exhibits in Toronto and throughout the province, for their test orchards at Fonthill contain probably more varieties of fruits than are to be found in any other single planting in the country, not excepting the Dominion or provincial experimental stations. These collections of fruit have added greatly to the educational values of the exhibits, and are much appreciated. Both members of the firm have taken an active part in promoting the work of the Ontario Fruit Growers' Association, each serving terms in the board of directors, while Mr. Wellington filled the president's chair for a term or two at the urgent solicitation of his friends, the fruit growers.

FOREIGN APPLE MARKETS.

Latest cable advices from the principal apple markets of Great Britain state that the slump in the middle of the week, from excessive offerings, was more than overcome at the close with the demand good and large for well conditioned parcels. Latest sales show nets for fancy New England Baldwins from $2.25 to $2.50; some very fancy high colored parcels sold to give nets of $2.75. Greenings and Golden Russetts sold to give nets from $2.50 to $3.co, some fancy lots netting $3.25. Kings sold to give nets from $3.00 to $3.50, occasionally $4.00 for some fancy lots. Ben Davis continue to sell poorly and nets come all the way from $1.50 to $2.25 a barrel. Roxbury Russetts gave nets of $1.75 to $2.25. Various other red varieties, when fine, sold to give nets all the way from $2.25 to $3.25. These prices are for finest fruit and in good order. Slack and wasty and No. 2's sold to give nets from 50 to 75 cents less than the above prices.

Mail advices to hand to-day under date of the 10th inst., speak well of the general good demand for fine sound fruit, but state that some of the arrivals by some of the old-fashioned boats landed more or less wasty. They look for a good demand, about current prices, right up to Christmas. The consumption is large and continental buyers still compete with English buyers for fine parcels.

The Boston Chamber of Commerce gives the total shipments of apples from this port for the week ending the 17th inst. as 52,293 bbls., and from New York 55,954, and from Portland 9,028, from Halifax 17,869, and from Montreal and Quebec 32,281 bbls. The total shipments from all Atlantic ports for the week ending were 167,435 bbls.; for same date last year, 152,704. The total shipments since the opening of the season amount to 1,080,468 bbls.; same date last year, 1,267,547 bbls., and for 1904, 1,217,437 bbls.

GEO. A. COCHRANE, Fruit Exporter.

Boston, Mass., Nov. 19, 1906.

AN ORCHARD COMPOSED OF DOUBLE-WORKED TREES.

AN IMPORTANT ORCHARD EXPERIMENT.

It was my pleasure to visit recently a three-hundred-acre apple orchard in western Indiana. This was one of the most suggestive and attractive enterprises that I have studied for a good while. The trees were propagated and trained on a somewhat new-fashioned plan. The story of their growth is something like this: Northern Spy scions were root-grafted on ordinary apple seedlings, using short piece-roots. The grafts were planted in nursery row, taking care to set them deep. The grafts were grown one or two years in nursery row, according to the vigor of the tree. If at the end of one year they expressed decided vigor, they were taken up. If the tree was rather weak, it was allowed to stand for another year. When taken up, the original seedling root was cut away, and the tree was then reset in nursery row. It may not be generally understood (outside the nursery craft) that in foot-grafting apples a considerable portion of the grafts will throw out roots from the scion quite above the orginal root. Now, when these were replanted, they were set back practically on their own roots, and represented a rooted cutting.

In due time the trees were taken from the nursery row and set in orchard. They were then good sized standards, when planted in orchard. After being established in orchard they were then top-budded. This work was done either the autumn of the same season or the year following, depending again on the growth which the trees made. The buds were inserted in the branches, and not in the stem, so that the forks of the tree were of the Northern Spy variety. In inserting these buds, care was taken to set them so that a desirable framework would be developed.

Another important point was observed in connection with the selection of scions. These were taken from bearing trees which had made a good individual record as to productiveness and quality of fruit. We have, therefore, an orchard of own-rooted Northern Spy stock, supposedly the best apple stock available. On this stock are grafted selected types of the leading commercial varieties of apples. The experiment is on a generous scale, and should bring forth exceedingly interesting results. We shall watch it with a good deal of care, because the outcome will be of value, not only to the immediate section in which the work is being carried on, but to the country at large.

J. C.

MAHER & GROSH CUTLERY CO.,
Toledo, Ohio.

Gentlemen—Enclosed you will find postal money order for $1.00 for which amount please send to my address three Cocoa-handle Budding Knives, Price List No. 93. I have used your knives for the past ten years and from my experience they have no equal, as I consider your 35c. Budding Knife equal to any "six-bit" or $1.00 of any other I have used of the "I. & L." or other standard make of cutlery. Kindly do me the favor to send knives on receipt of this. Also please mail price list and oblige,

Yours truly, E. P. PASSMORE,
103 N. Hill St., Los Angeles, Cal.

THE NATIONAL NUT GROWERS' CONVENTION.

The fifth annual convention of the National Nut Growers' Association convened at Scranton, Miss., Oct. 31st. The meeting was well attended from the opening session to adjournment at noon on November 2d, when the party left for Ocean Springs and other points to examine groves and nurseries. The program was followed closely, and interest throughout all the sessions was marked.

This meeting was distinctively a business convention; many matters of concern to the industry received attention, after having been well prepared by the various committees. A number of important papers were read by title, and will appear in the proceedings. Scranton entertained royally, and Hon. H. B. Everett, in his address of welcome, exploited the advantages of Pascagoula Harbor and resources of surrounding country.

Hotel accommodations for the entire party which assembled from twelve different States, was furnished at "The Cottage by the Sea," and the oyster roast on the beach, on Thursday evening, with its attendant surroundings of music, electric lights and speeches, was a novel and much appreciated feature of the meeting.

President Kirkpatrick, of Texas, declined a re-election, and Prof. F. H. Burnette, of Louisiana, succeeded him. H. C. White, of Georgia, was elected a vice-president, while the other officers were all re-elected.

Guy P. Stubbs, of Louisiana, was added to the executive committee.

Proceedings of the convention will be published soon. Next meeting goes to Virginia, about the date of Horticultural Congress. J. F. W.

PAPERS PRESENTED.

Among the important papers presented was one by William A. Taylor, Division of Pomology, Washington, D. C., on "The Economic Importance of Pecan Names." In this paper, Mr. Taylor emphasized the desirability of strict adherence to the code of nomenclature published by the American Pomological Society, and recognized by our leading nurserymen and fruit growers. He drew attention to the confusion which exists in many places, and to the necessity of growers posting themselves in regard to the systematic phases of this subject.

"A Review of the Pecan Industry," by Herbert C. White, of DeWitt, Georgia, revealed the remarkable development of pecan culture in the Gulf States. Among other papers was one on "Intermediate Crops," by C. E. Pabst, Ocean Springs, Miss.; "The Teaching of Horticulture in Our State Agricultural Colleges," by Prof. Craig, Cornell; "Obstacles and Objections to Nut Culture, and How to Overcome Them," by J. F. Wilson, Poulan, Ga.; "Side Lines for Nut Growers," by Prof. H. N. Starnes, Experiment, Ga. The report of the committee on Nomenclature and Standards proved to be an important contribution to our knowledge on that subject.

THE JANUARY ISSUE OF NATIONAL NURSERYMAN.

Look out for something fresh, up-to-date and reliable on San José Scale and insect legislation in the January issue of the National Nurseryman. We have more coming.

Doings of Societies.

The National League of Commission Merchants will hold their annual meeting for 1907 in the city of Pittsburg in January. Elaborate preparations are making for an attractive and profitable meeting.

Maryland State Horticultural Society. This progressive organization will hold its ninth annual meeting in the Fifth Regiment Armory, Baltimore, Maryland, on December 5th and 6th. An attractive program has been provided in which we note that the carnation and the chrysanthemum occupy an important place. Among the speakers invited are Professors Spillman of Washington and Beach of Iowa.

Illinois State Horticultural Society. A meeting of this important state organization will be held at Champaign, December 12 to 14, 1906. This society holds its meetings after the three distinct meetings composing the state horticultural organization have been held. It is in fact a round-up of the horticultural conferences of the year. In addition to the papers and discussions there will be a fruit exhibit which is expected to be large and attractive.

Business Movements.

National Nurseryman:

We heartily thank you for the attractive manner in which the different features of our nursery were recently presented to your readers. The illustrations were most satisfactory and we feel that the result will be altogether happy. BARBIER & CO., France.

SIMPSON BROTHERS DEVELOPING PECAN MURSERY.

Messrs. Simpson Brothers, of Vincennes, Ind., have recently purchased the Jones Nursery, of Monticello, Fla., known as the "Nut Nursery Company." They will take charge of the nursery January 1, 1907.

The new firm consists of three partners, Ray C. Simpson, Harry D. Simpson and Robert A. Simpson, all sons of H. M. Simpson, of Vincennes, Ind. Harry D., and Robert A. are also members of the firm of H. M. Simpson & Sons, of Vincennes, Ind. Ray C. Simpson will be manager of the nursery at Monticello.

These men expect to grow nut trees to the exclusion of other stock, and will make a specialty of the paper shell varieties of pecans, for the growth of which the soil and climate at Monticello are especially adapted. This location was selected by the Simpsons as the best place for growing pecan trees in the south. They also expect to plant some large pecan orchards at Monticello in the near future.

This winter the firm will put in from 100,000 to 125,000 pecan grafts which they will offer to the trade in the fall of 1907.

SUB-TROPICAL POMOLOGY.

Cornell University College of Agriculture is the first institution of its kind in the Northwest to offer a course in sub-tropical pomology. This was instituted at the beginning of the present university year by a series of lectures by Dr. John Gifford, of Cocoanut Grove, Fla. The course is now regularly in charge of Prof. L. B. Judson, who has spent some time on the Pacific Coast and in the Gulf States studying the practical problems of the citrous fruit grower, and comes thoroughly equipped for this important work. Some twenty students have registered in this department, and it promises to meet a well-defined demand for instruction in the cultivation of fruits which are staples in the great region on the West and South.

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SECRETARY-TREASURER AND BUSINESS MANAGER, C. L. YATES

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ROCHESTER, N. Y., DECEMBER, 1906.

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PENNSYLVANIA NURSERYMEN'S ASSOCIATION—President, W. H. Moon, Morrisville, Pa.; secretary, Earl Peters, Mt. Holly Springs, Pa. Next annual meeting at Harrisburg, in January.

NATIONAL ASSOCIATION OF RETAIL NURSERYMEN—President, William Pitkin Rochester, N. Y.; secretary-treasurer, F. E. Grover, Rochester, N. Y.

TRANSPORTATION MATTERS.

The Fruit Trade Journal of New York, records the results of an interesting damage suit brought by one David C. Williams, of Georgetown, Delaware, against the Armour Refrigerator lines. The suit was to recover the value of strawberries which the plaintiff had lost because of the inability of the company to furnish cars after he delivered his fruit at the direction of their agent. Williams was informed that he could obtain iced cars at a certain time. He purchased strawberries, delivered them according to agreement; but before the cars were supplied, the berries were ruined. The plaintiff won the suit. This is a decision which will have an important effect on the shipping of perishable fruits.

NURSERYMAN'S SHIPPERS' TABLE.

Mr. Albertson, traffic manager of the American Association of Nurserymen, assisted by Mr. Reed, has again issued a new edition of the shippers' table, in which such changes in classification as have been made this season are included. We hardly need to emphasize the value of this table of classified knowledge regarding shipping rates. The list of grievances presented by our readers in the last issue of the NATIONAL NURSERYMAN is sufficient to emphasize the full importance of the matter. This table will in future be sent only to members of the Association. Its appearance is made possible by the contributions of the nurserymen, and therefore it belongs to these persons only. The traffic manager and chairman of transportation committee expect to issue these brief bulletins from time to time, but in future they will be mailed only to members of the Association. The first classification table was sent out to some 3,500 addresses, and was accompanied by a letter soliciting memberships. In this way, all persons had an opportunity of seeing the character and value of the work of the Association. If they have not availed themselves of the privilege of membership, it is their own loss. We would strongly urge all persons who have not obtained a copy of this shippers' table, and who are not securing the benefits of membership in the Association, to delay the matter no longer. They should at once send in their membership fee to Secretary Geo. C. Seager, and place themselves in line to receive all the benefits conferred by this Association, organized and conducted in behalf of the nursery interests of the United States and Canada.

AN ENGLISH FRUIT FARM.

It is usual for the average American fruit grower to look upon fruit-growing in the British Isles as a very intensive operation, conducted on a small scale. It may be surprising to some to learn by the *Journal of Horticulture*, that there are some large tracts exclusively devoted to fruit-growing, and at the same time most intensively cultivated. In a recent issue of that journal, there is a description of a fruit farm at Evesham, England, consisting of one hundred and fifty acres, all most intensively cultivated, that

is to say, the ground is entirely double-cropped. If apples are planted, the interspaces are occupied by strawberries, or raspberries, or some bush fruit. If currants are planted, some under-crop is grown even here. The great bulk of the product of this farm goes into jam. The proprietor is a jam manufacturer. It is surprising to learn that the picking of strawberries begins at three A. M. during the season, and that as much as two tons of fruit were sometimes placed on rail by eight o'clock; and that before noon these berries had undergone the preliminary process which finally converted them into jam. The gooseberry and the currant are extensively cultivated. These are grown on single stems, and not in the bush form most usual in this country. Some thirty-five acres of raspberries are cultivated exclusively for jam. Dwarf pears are intercropped with strawberries and black currants. The twenty acres of apples in orchard are entirely on the Paradise stock. This is a case of a fruit grower producing his crop for a special and definite purpose.

Our last sketch presented the leading features of a prominent nursery company of France. In this issue we direct attention to the activities of a nursery company located across our northern boundary.

SCOPE OF THE NATIONAL NURSERYMAN.

It is not the policy, practice or desire of the NATIONAL NURSERYMAN to constantly din into the ears of its readers facts which are readily apparent to the observant. We do not think it necessary to count the number of news items in each issue and herald this in the succeeding number, because we do not believe that the value of a journal is measured by the number of unconnected incidents recorded in its pages. The pressure of horticultural items of real live interest upon our columns eliminates the personal element in large degree We wish the paper to speak for itself. We are happy to say our patrons write, unsolicitedly, in favorable terms.

But we started out to say that, without making any loud-sounding claim to international range and connections, we feel confident in offering the assertion that the NATIONAL NURSERYMAN reaches a larger number of bona fide plantsmen of the nursery type than any other journal of its class in this country. Its range is unquestionably international. Its clientele has been increasing steadily, and we hope its influence has been growing during the fourteen years of its existence.

The sketches of the firms which have appeared in our pages have been written at first hand, after an examination of the institutions concerned, and are faithful presentations of conditions as they existed in each case. As such, they are of considerable technical, as well as commercial value. It is a type of publicity which no one need shrink from, and which should bring credit to the journal, as well as to the nurseryman.

EDITOR NATIONAL NURSERYMAN:

We assure you that your journal meets with our approval, and we wish you the greatest of success.

COOPER & MONCRIEF,
Winfield, Kans.

Correspondence.

A DISTINCTIVE MARK—AN IDEA IN TAGS.

EDITOR NATIONAL NURSERYMAN:

We have yours in reference to the Red Tag Trees. In answer to your question as to "how the idea grew," would say that the idea originated with our advertising agents; that is, in talking over with them the continued trouble we were having with unscrupulous tree peddlers all over the country, who represented themselves as our agents, they proposed we use a red band around each tree that was sent out direct by us to the planter, in order to identify our stock. We, however, knew that this would be quite a task to apply a red band to each tree, and especially in sending them out in large quantities, so we proposed that we use a Red Tag, attached to the tree with a brass wire, so that the wire would not rust out. Our advertising agents finally agreed to this plan, and we find it is working to our entire satisfaction, and we believe is increasing our sales through our agents and otherwise. In fact, some of our customers advise us that they will not accept their stock unless it has the Red Tag attached, and we remember one party who wrote us last spring, who had received his stock in the fall of 1904, that he knew his stock was not true to name, because it did not have the Red Tags attached; and the joke on him was that we did not commence to use the Red Tag until the season following; that is, in the spring of 1905.

So far the Red Tag idea is working to our entire satisfaction. There is hardy a mail that does not bring us letters from different parts of the country, from parties who have placed orders with traveling tree men, claiming to be our agents, and we, of course, advise the parties that we have not their order, and not to accept the trees as coming from us unless they have the Red Tag attached to each tree. So, in this way we find the Red Tag quite a protection. We, of course, have had the Red Tag registered in the U. S. Patent Office.

Yours truly,
PHOENIX NURSERY COMPANY.

Bloomington, Ill.

TEXAS PECANS A SMALL CROP.

NATIONAL NURSERYMAN,
Rochester.

In your November 1906 issue, page 349, there is a notice of the pecan crop which is a little misleading.

Instead of a "large crop of pecans in Texas," it is about the smallest crop ever known.

Instead of there being "about 800,000 wild trees in Texas," it would be nearer the truth to say 800,000,000!!

Several other statements by this writer are far from the mark.

It is strange how continuously the Market Bears succeed, by false statements, in decrying the price of produce until they get their paws upon it. After that the prices go sailing.

E. W. KIRKPATRICK.

McKinney, Texas.

ASSOCIATION MATTERS.

HORTICULTURAL INSPECTORS MEET AT BATON ROUGE.

This organization of field entomologists met at Baton Rouge, Louisiana, November 14th, 15th and 16th. This was the time and place of the meeting of the Association of American Colleges and Experiment Stations, so that there was gathered a large and influential delegation of horticultural investigators and practical workers.

The following list of topics was on the docket for discussion, subject, as usual, to addition or amendment by the Association itself at the meeting.

1. Uniformity of standards and systems of horticultural inspection and certification. Under this head a report was submitted from the committee on uniform tags, appointed at the last conference.
2. Is national inspection of nursery stock, for interstate trade, desirable?
3. Should Congress empower the Bureau of Entomology to inspect importations of nursery stock, and to make regulations to prevent the importation of insect and fungus pests?
4. Is fumigation a reliable means for the destruction of the San José scale on nursery stock?
5. How may the proper fumigation of nursery stock be so secured as to warrant an inspection officer in certifying officially to the fact?
6. Should a proper fumigation certificate be accepted in lieu of a nursery inspection certificate?
7. Should nursery stock, bearing a proper fumigation certificate, pass in interstate commerce without the restrictions now placed upon its free movement from one State to another?
8. Is it ever advisable to issue a certificate of inspection conditioned upon the performance by the nurseryman of certain acts necessary to secure a safe condition of his stock—such as fumigation of suspected stock and destruction of trees found affected by crown-gall, woolly aphis, and other well-known pests not always discoverable by an inspection of trees in the nursery row?
9. What credit should be given to inspection certificates issued in States where the inspection of nurseries is not required by law?
10. What position should be taken concerning States whose inspectors refuse to recognize the inspection certificates of any other State?
11. What protection should be accorded the nurserymen against infestation from adjoining or neighboring infested premises?

It is expected that representatives of the National Nurserymen's Association and of the Association of Economic Entomologists will be presented at this meeting to assist in the discussion of topics of common interest.

It is suggested that official inspectors working under State commissioners, or boards of control, invite the members of such bodies to join this Association and attend this meeting.

WHAT WAS DONE.

ALBERTSON AND WATROUS REPRESENT ASSOCIATION AT MEETING OF HORTICULTURAL INSPECTORS.

The American Association of Nurserymen was represented at the annual meeting of the Horticultural Inspectors by Capt. Watrous, who was delegated by the executive committee to undertake the duties assigned to the committees on Legislation and Inspection. Mr. Albertson was present to aid and advise at the joint meeting of the committees. We present on the next page a condensed report of the proceedings of the conference, and the action arising out of it.

WORK OF PROGRAM COMMITTEE.

This committee, consisting of Judge Eugene Stark, C. J. Brown, of Rochester, and Herbert C. Chase, Huntsville, met last month and drafted a rough outline of the program. It was decided to have only two sessions each day of the convention, these coming in the morning and afternoon, and consisting of a two hour and a half conference each. One evening has been set aside for an illustrated lecture upon a subject of vital interest to nurserymen. This lecture will probably touch characteristic phases of nursery operations from one end of the United States to the other. The other two evenings will be available for the meetings of the protective associations.

SUGGESTIONS FOR THE QUESTION BOX, II.

The committee is most anxious that this should be a strong feature. Interchange of ideas in general is profitable, but the answering of specific questions by men of experience will often repay the beginner for all the expense incident to attending the meeting. Some of these questions were suggested in last issue of the NURSERYMAN, and another assortment is offered in this number. Let everyone take a hand.

The program committee is insistent that live subjects should be selected, that live men should handle them, and that as much new blood should be brought into the program as possible.

1. How do you care for your French seedlings when received during the winter?
2. Do you find your customers complain about your cherries being short-lived? What is the remedy?
3. Do you plant the natural peach seed, and why? Do you think the "budded" seed from the canning houses should be used?
4. How early in the spring do you top your peach?
5. How many times do you dis-bud them?
6. Will plum trees be planted in quantities as they have been in the past years?
7. Will the western men continue to grow apple trees at the low price they have been sold?
8. How should inspection be done in the nursery? How often, what season of the year, and by whom?
9. Are there any bad effects, or marks following the spraying with salt, lime and sulphur in the nursery row?
10. What is the best time to use lime and sulphur in nursery?
11. How far above the bud do you caliper your apple, pear, plum and cherry trees?

PROCEEDINGS OF THE ASSOCIATION OF THE OFFICIAL HORTICULTURAL INSPECTORS.

R. J. Smith, Atlanta, Ga.

In pursuance of a custom adopted several years ago the Official Horticultural Inspectors' Meeting was called by the President, Dr. Forbes of Illinois, to meet at Baton Rouge on November 14th and 15th, during the same week of the meetings of the American Association of Agricultural Colleges and Experiment Stations.

First session was held November 14th at 2 P. M., in Agricultural Hall University of Louisiana. About twenty representatives from different states were present. Meeting called to order by Dr. S. A. Forbes, Chairman. Prof. James Troop, of Indiana, was elected Secretary in place of Prof. J. B. S. Norton, of Maryland, who was absent.

UNIFORM TAG.

First business taken up by the Association was a discussion of the matter of uniformity of standards and systems of horticultural inspection and certification of nursery stock. A report was submitted by the chairman of the Committee on Uniform Tag System for covering shipments of nursery stock. This committee was appointed by the Association at the meeting held in Washington, D. C., in November, 1905. The committee consisted of Dr. S. A. Forbes, Illinois, Prof. A. F. Burgess, Ohio, and R. I. Smith, Georgia. Dr. Forbes, chairman of the committee, stated that the committee had carefully considered the matter and submitted a report as follows :

The Committee on Uniform Tag Systems begs to report that they have found it impracticable to act under the resolutions appointing them, for the reasons, especially, that they were unable to give the work of such a committee the time necessary to its satisfactory and responsible performance, and that they were also without funds for payment of the expenses of the system of certification contemplated, and saw no way of providing themselves in this particular, except through the sale of tags to nurserymen who might or might not approve of the system in the manner necessary for its support."

They further reported that judging from the correspondence of the Secretary, R. I. Smith, of Georgia, with horticultural inspectors of the various states, they deemed it extremely doubtful if any sufficiently general co-operation in a uniform tag system could be secured to give it value which would lead to its general acceptance and use by officials in all states and by the nurserymen.

INSPECTION CERTIFICATES.

Relative to the standards of inspection certificates, a report was submitted by Prof. H. E. Summers, of Iowa, giving a list of insects which are barred by the laws of various states. From the list it appeared that the San José scale was the only insect that all agreed upon. It was therefore deemed inadvisable to recommend a list of insects, which should be included in an inspection certificate, for general adoption at this time.

Next business was relative to the question, "Is national inspection of nursery stock for interstate trade desirable?" Prof. Sanderson, of New Hampshire, offered the following resolutions :

(1). "Resolved, that it is the sense of this Association, that Congress should require the Secretary of Agriculture to make regulations governing the inspection and certification of nursery stock for interstate commerce."

FEDERAL INSPECTION.

(2). "Resolved, That Congress empower the Secretary of Agriculture to inspect all imports liable to harbor insect pests, and to make suitable regulations therefor." Both above resolutions carried by unanimous vote.

Moved and carried, "That this Association appoint the present Chairman, Dr. Forbes, to act with a similar committee from the Association of Economic Entomologists, and American Nurseryman's Association, for the purpose of putting the above resolutions into effect."

FUMIGATION.

Fumigation of nursery stock with hydrocyanic acid gas was then discussed with the following conclusion :

It seems to be the general concensus of opinion that fumigation of nursery stock is a reliable method for the destruction of San José scale, provided it is done under proper conditions, and by experienced persons.

The question was brought up regarding the certification by horticultural inspectors, of fumigated infested nursery stock, particularly regarding the advisability of giving such a certificate. After some discussion it was decided that a fumigation certificate should be accepted only when all known infested stock is destroyed and the fumigation of the remaining stock done under the supervision of some one appointed by the inspector. It was thought that such procedure reduced the chances, to the lowest degree, of the fumigation not killing every insect.

FUMIGATION CERTIFICATES.

Evening session held at Grouchy Hotel, 8 P. M.

Meeting opened by a discussion of the question, "Should a proper fumigation certificate be accepted in lieu of an inspection certificate?" After discussion the following resolution was proposed and adopted :

"Resolved, That a proper fumigation certificate *should not* be accepted in place of a nursery inspection certificate, for the reason that one cannot always be certain that the fumigation has been properly done, if left in the hands of the nurserymen, and further because other diseases should be covered by the inspection certificate that would not be covered by the fumigation certificate alone."

It was moved by Prof. Wilmon Newell, of Louisiana, that the Association recommend that where laws and regulations of states permit, that expiration date of certificates be made the 1st of September, following date of inspection, instead of 1st of July, as heretofore. This motion met with so much opposition that it was laid on the table indefinitely.

A discussion of Woolly Aphis and Crown Gall was made a special order for the next session.

Relative to the question, "What protection should be accorded the nurserymen against infestation of their stock from adjoining premises?" it was decided that no definite action should be taken because of conditions differing so widely in various states. It was the unanimous opinion, however, that the nurserymen are entitled to protection against infestation from adjoining premises, and all such infested premises should be cleaned up, or the stock on them effectually treated, to prevent their being a menace to their neighbor nurserymen.

CROWN GALL AND WOOLY APHIS.

Third session, 9:30 A. M., Grouchy Hotel.

Meeting called to order by Dr. Forbes, who stated that the first business would be a discussion of Crown Gall and Woolly Aphis, as decided at a previous session. After considerable discussion, that brought out many interesting questions on this subject, the following resolution was adopted :

"Resolved, That this Association recommends that certificates be granted when the nurseryman agrees in writing, to market no nursery stock visibly infested with either Crown Gall or Woolly Aphis, and that an examination by the inspector of the trees, when dug, is advised whenever practicable."

As the proceedings of the meeting were considered to be of value and should be printed and preserved, Prof. Sanderson moved, "That the Association, in meeting assembled, respectfully requests the Secretary of Agriculture to print the proceedings of this meeting, if feasible, in the bulletin, which is now being prepared, containing the proceedings of former meetings of this Association."

NATIONAL CONTROL OF INSPECTION.

Concerning the matter of getting national control of, and inspection of nursery stock, discussed during the first session, Nov. 14th, the Secretary of the Association of Official Horticultural Inspectors was instructed to notify and request the American Nurserymen's Association and the Association of Economic Entomologists, to appoint a committee of one to act with the committee of this Association in the matter of formulating a plan for getting national inspection and supervision of interstate shipments of nursery stock.

Selection of time and place of next meeting of this Association was left, by unanimous consent, to the President of the Association. It was suggested that he consider the matter of meeting at the same place and time as the Association of Economic Entomologists.

New officers were elected, as the President requested to be relieved on the ground that he had held the position for so many years, and the secretary's position was left vacant, as it seemed best to elect one each year from among those present at the meeting.

New officers, Prof. A. F. Burgess, of Columbus, Ohio, President, and Dr. John B. Smith, of New Brunswick, N. J., Vice-president.

At 12:00 noon the Association adjourned to meet again when called by the President.

ASSOCIATION MATTERS.

REPORT OF DELEGATES ALBERTSON AND WATROUS.

EDITOR NATIONAL NURSERYMAN :

You will be interested to know that the representation of the nurserymen—Mr. Albertson and myself—met the entomologists at Baton Rouge, La. After a very free conference, the results seem as follows : Both national societies of entomologist are of opinion that any attempt to secure practical rules for the inspection and shipment of nursery stock by mutual agreement is hopeless.

Both have practically been forced to the conclusion that some central authority with funds to secure the execution of its uniform rules must be relied upon. The federal government can make and enforce uniform rules. The next problem is to devise ways and means to secure the enactment of the right law.

To these conclusions the representatives of the nurserymen were not able to offer any reasonable objections, but offered to co-operate to the best of their ability.

The result is for the future to bring forth.

Des Moines, Ia. C. L. WATROUS.

A WORD FROM THE CHAIRMAN OF COMMITTEE ON EXHIBITS.

I am pleased to note that it is your intention to have an Association Department in each issue of the NATIONAL NURSERYMAN from the present until the date of the Convention, so that Association matters will be constantly before your readers.

I think this an excellent idea and I hope that not only the members of the various committees, but also the members of the Association will take advantage of this to discuss in the columns of the NATIONAL NURSERYMAN, matters of general interest to the Association, or make such suggestions concerning the next meeting as may be of benefit to the Association or its members as a whole.

As Chairman of the Committee of Exhibits, I have to say that it is the intention of this Committee to make the exhibition a feature of the Convention. In my opinion, this is a most important matter and one which has been sadly neglected in the past. Many nurserymen are using certain tools or supplies which are great labor-savers and yet they are unknown to the majority of the nursery trade. The Committee hopes to secure a good collection of articles from manufacturers of these different implements and supplies so that the exhibit will be a source of general information to the members of the Association.

At this time the Committee has nothing to report, but they are individually on the alert looking for any useful tool that is not generally known to nurserymen, and any member of the Association that can make suggestions to the Committee or recommend anything particularly promising that is not generally known will have the hearty thanks of the Committee.

The Committee already has promises of some exhibits along these lines and hope to have many more before the day of the Convention.

Dreshertown, Pa. THOMAS B. MEEHAN.

THE COMMITTEE ON ARRANGEMENTS—AMPLE HOTEL ACCOMMODATIONS.

I have nothing final to report from our Committee at this time. We intend to do our share in arranging for entertainment so there will be no regret on the part of the members of the Association in coming to Detroit for the next Convention. It is too early to do anything about the hotel accommodations as the new hotel now building on the site of the old Russel House, to be called the Pontchartrain, is not sufficiently advanced to do business. They are now making good headway and expect to open by the first of March. It will be a fine hotel and I hope we will be able to make satisfactory arrangements with them for our accommodation. On the first of this month, the Fuller, a handsome new ten-story first class hotel, was opened in Detroit, so with the Cadillac Hotel, our headquarters at the last meeting in Detroit, still available, we should fare well on the hotel question.

Detroit shows some marked improvements since our last Convention held there and I believe we will have no difficulty in filling in all the time that can be spared from the sessions with entertainment that can be enjoyed by all who attend.

Monroe. CHAS. A. ILGENFRITZ.

Fruit and Plant Notes.

THE PHILADELPHUS GROUP.

In this group of twenty-five or thirty species, we have a great many forms of special value for lawn and park decorative purposes. This is the old mock orange of the farmstead, and the syringa of many nurserymen. There is no group of shrubby plants more easily grown, more readily propagated, and none which contains a larger number of strictly hardy forms. With the exception of two or three Mexican and Pacific Coast species nearly all members of the family can be grown as far north as latitude 42°, and they have a wide range of adaptation as regards soil and exposure. While they are attractive on account of their wealth of heavy foliage, their special ornamental value lies in the abundance and quality of the bloom. The shape of the flower with its conspicuous set of yellow organs has suggested the term mock orange. Some of them are markedly perfumed, and all of them are floriferous. They vary considerably in size and vigor. This variation in size makes it possible to use them very advantageously for massing and grouping.

They are among the easiest shrubs to propagate, growing readily from either hard wood cuttings set in fall, or partially ripened wood set in frames during the early part of summer. Old clumps can also be taken up and sub-divided.

Among the best known forms are P. gordonianus, which bears large pure white, but scentless, flowers, P. coronarius, the common mock orange of Europe and the Caucasus, bearing creamy, highly fragrant flowers in dense racemes. This old form has given rise to a number of nurserymen's varieties, one of which is golden or yellow, another distinct dwarf, and another bearing lanceolate leaves. On the campus of Cornell University, there are at least a dosen species of this interesting group, all of which are useful and objects of much interest during the summer season. F. A. C.

PETERSON'S NURSERY COLLECTING IRIS.

The collection of irises gotten together by the Peterson Nursery of Chicago is said to be one of the largest in the country. Mr. Peterson is well known as a peony specialist, and has had for a number of years one of the largest collections of peonies in the country. It is gratifying to know he has turned his attention to another class of useful and attractive, but somewhat neglected, plants.

A NEW HARDY WHITE ROSE.

Messrs. Ellwanger & Barry, of Rochester, are offering something new and apparently valuable in the way of a hardy white everblooming rose. This is called the Snow Queen, and is known in Europe by the name of Frau Karl Druschki.

PEAR BLIGHT IN CALIFORNIA.

The Division of Pathology of the Department of Agriculture at Washington is making a determined attack upon the pear blight disease in California. The work is in charge of Professor Waite, who will be assisted by a corps of agents supplied in part by the federal government, and in part by the experiment station of California. It is up to the pear growers in California to co-operate with Mr. Waite, for the blight has obtained such a foothold that the entire Bartlett pear industry of the region is threatened with extinction.

THREE HUNDRED ACRES OF BASKET WILLOWS.

What are known as the two most important growing and shipping districts for basket willow are the towns of Lyons and Galen, N. Y. It is estimated that in the above towns there are nearly 300 acres devoted to the culture of these willows. The average yield during the past year was six tons to the acre, while the price was about $17.00 per ton received from the crop that was sold. When the willows are stripped of their bark and otherwise prepared for manufacturing purposes, the value increases and they are generally estimated at about $125.00 per ton. Practically all of the willow grown in this vicinity finds its way to the Syracuse market. This industry is quite old in this locality and dates back to the early '60's, it being generally supposed that John A. Blackburn, who came from the South and gained some knowledge of the willow culture, planted the first willows grown there.

Among the Experiment Station Workers

Special Correspondence, Washington, D. C.

The Bureau of Soils, of the Department of Agriculture, has recently published a twelve hundred page volume, dealing with surveys of soils in practically every state in the Union. The volume is accompanied by a number of maps and illustrations. The work is a very exhaustive one, and contains a great deal that will be of interest to the agricultural class. The time has come when agriculturists, especially those in the Eastern, Southern and Central Western States are called upon to utilize every acre of their land to the best advantage, and it is to assist in this that the Bureau of Soils has been conducting its extensive studies and experiments.

Some interesting facts relative to the adaptability of soils in heretofore unknown tobacco growing areas to the cultivation of tobacco are given in detail. It will be remembered that in 1897 the price of cotton was very low. South Carolina planters began to make investigations looking toward the cultivation of some more profitable crop. Especially was this the case of those in the vicinity of Charleston and Columbia. The same was true of those near Augusta, Georgia. By almost unanimous consent they turned their attention to tobacco. This section has never been regarded as favorable to the growing of tobacco. The planters were inexperienced, but were wise enough to import expert tobacco men to aid them in the planting, cultivation and curing of the crop.

The soil was found especially adapted to the purpose, and since then tobacco has alternated with cotton over a wide extent of the cultivable land in that section. High grades of tobacco are produced in this section. The Bureau states that the soil in the Bainbridge, Georgia area is well suited to the production of a good grade of filler tobacco, and will yield approximately 700 pounds to the acre, with proper fertilization. An attempt was made to produce Sumatra leaf, but the soil is pronounced unfitted for that purpose. The cultivation of tobacco is at present confined to the southern portion of the Bainbridge area, and in some instances one thousand pounds to the acre have been raised. The quality is good and the color light, but, it is said, the burn is not so good as in tobacco grown on other soils. Experiments have also been made in growing tobacco under shade in this area, and with very favorable results. Wrapper leaf has also proved very profitable. Tobacco is now the most important crop in this area. While the attempts to produce Sumatra leaf have not proved successful, yet Sumatra wrapper of excellent quality is raised, also a most excellent quality of Havana filler. The Sumatra wrapper is grown under expensive shades of lath and boards, costing from $2.00 to $3.00 per acre. The land requires heavy fertilization, which adds from $50 to $75 per acre to the cost.

The experts of the Bureau of Soils are of the opinion that the Orangeburg fine sandy loam in De Soto Parish, Louisiana, is capable of producing a high type of Cuban seed filler leaf tobacco. It is among the probabilities that the cultivation of tobacco will soon be widely extended, the greatest problem being to find some crop to alternate with it, that will, to some extent, at least, restore the exhaustion caused by the growing of tobacco. The Bureau of Soils is engaged in this branch of the study.

BITTER ROT OF THE APPLE.

In a recent bulletin the Agricultural Department gives a good deal of attention to "Apple Bitter Rot." This disease is more or less prevalent in all the country east of Kansas and Texas, and has been especially destructive in a broad belt from Virginia to Oklahoma, and it has been extending its area for several years, and increasing in its destructive powers on the apple crop. The Department estimates that the loss to apple growers from this disease in 1900 reached a total of $10,000,000 throughout the country. The disease is due to a fungus. The first signs of the bitter rot on the apple is seen in a slight light-brown discoloration under the skin of the fruit. The spots rapidly increase in size, and although the fruit is seldom entirely destroyed, it is rendered almost worthless.

The Department has been much interested in this disease, and has been conducting a series of experiments looking to its eradication, Mr. W. M. Scott, of the Bureau of Plant Industry of the Department, carried on extensive experiments in spraying in an orchard in Virginia, last year. He used the Bordeaux mixture composed of five pounds of copper sulphate, five pounds of lime and fifty gallons of water. He demonstrated that the disease can be controlled by four applications of the mixture, if applied at the proper time, and in a thorough manner. He says the first application should be made about five or six weeks after the trees are in bloom, followed by others at an interval of two weeks. He claims to have saved from 93 to 98 per cent. of sound fruit on the trees, while on adjoining trees not sprayed, the fruit was a total loss.

SOME OBJECTIONS TO THE FREE DISTRIBUTION OF COMMON GARDEN SEEDS BY MEMBERS OF CONGRESS AT THE EXPENSE OF THE GENERAL GOVERNMENT.

W. W. Smith, Washington, D. C.

1. More than five million dollars has already been expended in distributing squash, turnip, lettuce, pumpkin, tomato, peas, beans and other seeds of common and well-known varieties.

2. All varieties thus distributed have been on the market for years, their product is well known and the seed can be obtained from any seed dealer.

3. It is a wanton waste of public money. The seed is divided into eight million packages of five packets each, the packets containing only a small quantity of seed—in some instances an ounce of seed makes 120 packets. Thus the quantity received by any one person is too minute to be of any service unless he receives more than one package, in which case he receives more than his share, and deprives some one else of his quota of seeds. As long established and well known varieties are the only ones distributed, the recipient learns nothing from planting them and in a majority of cases does not plant them at all. About one-third of the seeds go to congressmen from city districts whose constituents have no use for them.

4. The distribution costs the government $242,000 per annum. If this amount were distributed among the Agricultural Colleges it would give each one an additional appropriation of from $5000 to $10,000 per year. The $242,000 per annum thus wasted would support a national agricultural college with eighty professors at $2,500 a year or forty at $5000 a year.

5. It costs the Postoffice Department about $250,000 a year to distribute these seeds, or enough to maintain 2500 fourth-class postoffices, or 400 additional rural free delivery routes. The total expense is therefore a million dollars for each Congress, of which at least ninety per cent. is wasted.

6. The United States is the only government that gives away anything, and all it gives away is seeds. This is a great injustice to those connected with the seed trade, including growers, wholesalers and dealers. The total packet trade of the country amounts to 120,000,000 packets, of which the government gives away 40,000,000. What trade can live and prosper with the government giving away half as much as it sells?

7. If Congress wishes to help the farmer let it vary the program, and give him seeds one year, axes the next, hoes the third, and then sewing machines, harvesters, etc. This will distribute the business and give the seedsmen a rest.

8. The free distribution of seeds is an insult to every self-respecting farmer. They are not paupers and do not want five cent packages of seeds. It is condemned by the National Grange, by state and local Granges, and by the daily, weekly and agricultural press. *It should be abolished and the time to do it is now!*

How those opposed to the free distribution of seeds can assist in putting an end to it.

1. By the adoption of resolutions by Horticultural and Agricultural societies and other organizations. Copies of such resolutions should be sent to the member of Congress from your district, to the senators from your state and to the Senate and House Committees on Agriculture, Washington, D. C.

2. By writing personal letters to senators and representatives asking them to vote against the appropriation for "free seeds" next session.

3. By urging your friends to do likewise.

Note and Comment.

SHORTAGE OF REFRIGERATOR CARS.

Various correspondents of the *New York Packer* have been prophesying for some time a serious shortage in refrigerator cars. A curious condition arose during the latter part of October when the shipments of apples from Missouri and Western New York were so heavy that the New York Central lines were practically stalled, and a blockade such as has never been known on the road occurred in the eastern part of New York State.

HIGH WATER IN SOUTH FLORIDA.

The reports indicate that much of the low land on the east coast of Florida drained and undrained, used in recent years for truck growing, is, owing to the excessive heavy rains, in an unworkable condition. Much of it is actually under water. It is not likely that any planting will be done in some of the wettest portions until the beginning of the year. The early crop of vegetables therefore is entirely knocked out.

THE APPLE MARKET.

A decided slump occurred in the apple market throughout the whole eastern section of the country during the latter part of October and the fore part of November. This was due to heavy shipments from the Middle West. Boston reported an overstocked market early in November, as did New York and Philadelphia. Chicago was top heavy and unsatisfactory as a selling center. About the middle of November the best grade of boxed apples were fairly good stock in the New York market.

Loomis & Company of New York again made a specialty of the Hood River apples, and sold the entire output of that region to a firm of jobbers in New York, who distributed them to the various retailers in New York and Brooklyn.

TURPENTINE MANUFACTURERS SERIOUSLY INJURED BY SOUTHERN STORMS.

The tremendous storms of September which visited the Pacific Coast have brought great damage to the turpentine orchards in that region. The pine trees where were "boxed" were thereby weakened and came down readily under the pressure of the great storm wave that swept over the country. Turpentine manufacturers have experienced losses which will put many of them out of the business, and which will give the whole manufacturing interests a serious set-back. The pine timber which is now leveled to the ground will be worked up as rapidly as possible by portable saw mills.

FAIRY TALES.

These are the days of Jack-the-bean-stalk stories regarding plant life. An Iowa gardener is reported to be able to produce potatoes without the necessity of developing the tops. He causes the tubers to grow by making a mixture of sawdust, peat and earth, with the addition of some chemical. In this mixture tubers multiply with a great rapidity, so fast that within sixty days fifteen potatoes have produced a bushel.

We shall expect to see this paragraph making the rounds in the city agricultural papers for the next six months.

"There was a swindler selling bulbs to the good people of Coudersport last week and his method was unique. He not only sold the bulb but planted it. He allowed the housewife to notice how the bulb was placed in the ground and then heaped the dirt up completely covering it. He then sent the woman after a cover to protect the plant and while she was gone removed the bulb and heaped up the dirt again and went on to the next neighbor where the interesting process was repeated. But woman's curiosity stepped in and blocked the game, for one woman decided she wanted to see the bulb and see if it had begun to grow. Of course, she found no bulb and this remarkable state of affairs was made known to her neighbor who dug for the bulb she had paid for and found nothing. Then there was a general demand for the scalp of the vendor of the bulbs and he was captured and taken to Coudersport's grim prison. The culprit bears the name of G. A. Southerland."—*Westfield News, Westfield, Pa.*

STORMS INJURE FRUITS.

The year 1906 will be noted as a season in which the apple crop sustained severe damage in many parts of the country. Western New York suffered from a tree-breaking storm which swept over it early in October and did not damage the fruit so much as it did the trees. Michigan suffered a severe freeze in the latter part of the month, which destroyed considerable quantities of fruit and injured unripened wood of peach and pear very severely. Grape growers were caught also. It is reported that the same freeze destroyed from eight to ten thousand boxes of apples in Colorado. The trees as well as the fruit were injured there. The cold wave swept down to Florida and pinched the early vegetables in the northern part. Florida had her own troubles, however, in the hurricane line, and the entire lower peninsula was badly damaged by the tail end of the Cuban storm.

FLORIDA CITROUS CROP.

Reports by the *New York Packer* and other trade papers make it appear that the pomelo and orange crop in Florida will be a little heavier than last year. A good deal of grape fruit was brought to the ground by the heavy October storm, and much of this was placed upon the market before it was in merchantable condition. This will have a bad effect on the market in general, and it will take some time before the situation clears up.

THE OPTIMIST.

The winter winds are howlin',
  But they never worry me.
The gray clad skies are scowlin',
  But I'm happy as can be.
For while winter winds are blowin'
  And the coal bill swiftly growin',
There's great comfort just in knowin'
  That the springtime soon I'll see.

Jack Frost paints with icy fingers
  Chilly pictures grim and gray:
And the frost rime coldly lingers
  On the window night and day.
But there ain't no use repinin';
Soon the spring sun will be shinin',
And I'll take great joy reclinin'
  In the flowery bloom of May.

Waste of time to fret and worry
  When the cold winds whistle through.
All your growlin' will not hurry
  Better days to me and you.
Smile right through the days so dreary;
Smile right through the tasks so weary,
And we'll soon be gay and cheery
  When the May time skies are blue.

—*The Commoner.*

AMONG THE EXPERIMENT STATION WORKERS—*Continued.*

Alabama, Circular No. 1—October, 1906, is devoted to a discussion of San José scale, and the so-called new peach scale. This latter insect promises to be a pest of first-class importance in the South. It was imported from West India, and is now establishing itself and rapidly spreading over the country. It belongs to the same type of scale as San José, and is to be treated with the same remedies.

Georgia, Bulletin No. 21—Spraying to control San José scale, by R. I. Smith. An excellent bulletin giving the summary of results in controlling scale by using the commoner insecticides. The boiled lime-sulphur wash is recommended as the most reliable remedy. Soluble oil sprays are recommended with the caution that they should be first tried on a small number of trees. Fall and spring spraying is recommended. If only one spraying can be given, then spray in spring. The author concludes that "the San José scale may be kept in control if all who have infested orchards will apply the remedies recommended."

Obituary.

R. J. MENDENHALL.

Mr. Mendenhall, who was a pioneer florist of Minneapolis, died on October 19. He is credited with having built the first greenhouse in that city some forty years ago. He was a prominent member of the local florists' society and the State Horticultural Society.

GEORGE ELLWANGER, VETERAN NURSERYMAN OF ROCHESTER, PASSES AWAY.

As our forms close, telegraphic dispatches announce the death of this noted figure in the horticultural world. George Ellwanger was a native of the province of Wurtemburg, Germany, where he was born on Dec. 2, 1816. He came to the United States in 1835 Passing through the city of Rochester, he was attracted by its beauties and natural resources, and engaged in business with the firm of Reynolds & Bateham. In 1840, Mr. Ellwanger formed a partnership with the late Patrick Barry and founded the noted firm of Ellwanger & Barry. Mr. Ellwanger has been associated with the development of Rochester in a very intimate way. Aside from his business affiliations in connection with nursery work, he has been a benefactor and stimulating agent in the fullest sense of the word. Although for the past three years Mr. Ellwanger has been an invalid and confined to his room, his interest in horticultural matters has never declined. A fuller account of the important life work of this truly great man will be given in the next issue of THE NATIONAL NURSERYMAN.

Our Book Table.

Report of American Breeders' Association, Vol. 2, being the proceedings of the meeting held at Lincoln, Neb., January 17, 18, 19, 1906.

The second volume of the proceedings of this society is filled with interesting and valuable matter bearing upon the improvement of plants and animals. Two hundred and fifty-four pages are occupied with papers presented at this meeting. The discussions following the papers have not been included, and the type, illustration and general mechanical make-up might have been considerably improved.

We note that the annual membership of the Association has now reached nine hundred, and the life membership, forty-two. This is certainly a worthy organization and should have a great future before it.

"Ten Acres Enough," the author's name not given. Brief introduction by I. P. Roberts. Published by Consolidated Retail Booksellers, sold by Orange, Judd Co. 5″ x 8″. 273 pages, no illustrations.

We are not sure that it has not been proven that E. P. Roe was the author of this interesting and really instructive volume. This book, while not didactive and hardly specific enough in some respects, is very stimulating and really valuable to the beginner in vegetable and small fruit growing. It recounts the story of the experience of a city man who went into the country and settled on a ten-acre farm, where he grew vegetables and small fruits with pleasure and profit. His experience fairly related has a present day value for the hundreds of men and women who have similar intentions. Disappointments as well as successes are recorded which greatly enhances the value of the story. "Ten Acres Enough" is not exactly parallel with "The Fat of the Land," but practically in the same category.

CATALOGUES RECEIVED.

Catalogue of insecticides, Hammond Slug Shot Works, Fishkill-on-Hudson, N. Y. Horicum specially advertised.

Huntsville Wholesale Nurseries, Huntsville, Ala. To the trade only. Prices of pear, pum, peach, pecan trees, etc., and field grown roses.

Barbier & Co., Orleans, France. Nursery trade list for autumn, 1906, and spring, 1907. Illustrated. Fruit tree stocks, ornamental trees and shrubs, climbers, perennials, etc.

Levavasseur & Sons, Ussy and Orleans, France. Wholesale catalogue of plants, season 1906-1907. Illustrated. Fruit tree stocks, roses, herbaceous plants, etc.

Huntsville Wholesale Nurseries, Huntsville, Ala. Price list for fall of 1906 and spring of 1907; Bulletin No. 7 of surplus stock, April 20, 1906; price list, September, 1906.

J. G. Harrison & Sons, Berlin, Md. Descriptive illustrated catalogue of small fruits, fruit trees, etc.; two price lists of fruit trees, small fruits, etc.

Peter Henderson & Co., New York. Plants, seeds, lawn and garden requisites, etc.; autumn catalogue, 1906.

Vaughan's Seed Store, 14 Barclay St., New York. Catalogue and price list, autumn, 1906; Vaughan's Book for Florists, fall, 1906.

Ant. Roozen & Son, Overveen, Near Haarlem, Holland. Catalogue of choice Dutch and Cape bulbs, autumn, 1906.

Texas Nursery Company, Sherman, Texas. Price list of Early Wheeler Peach.

United States Nursery Company, Rich, Miss. Price list of field grown roses, shrubs, etc., fall, 1906, spring, 1907.

T. S. Hubbard & Co., Fredonia, N. Y. Grape vine specialists, wholesale price list.

Euclid Avenue Nursery Company, Painesville, O. Wholesale trade list for nurserymen and dealers only.

James Sons, Ussy, France. Wholesale catalogue of nursery stock, autumn, 1906, spring, 1907.

John A. Salzer Seed Company, La Crosse, Wis. Fall catalogue, 1906.

Jacs. Smits Ltd. Nurseries, Naarden, Holland. A handy catalogue of fancy ornamental stock, with wholesale price list.

Glen St. Mary Nurseries, Glen St. Mary, Fla. A neat, well illustrated catalogue of citrus fruits, pecans, roses, shade trees, etc.

The Fraser Nursery, Huntsville, Ala. Wholesale price list, fall, 1906.

Morris & Wellington, Fonthill, Ont. General catalogue of fruit and ornamental trees, shrubs, bulbs, etc.

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James McHutchison of New York, visited Rochester nurserymen in November on his way to Painesville, Cincinnati, and other western points.

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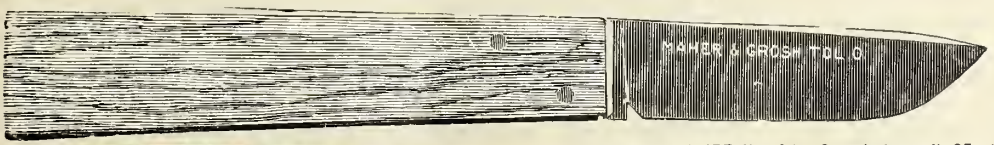

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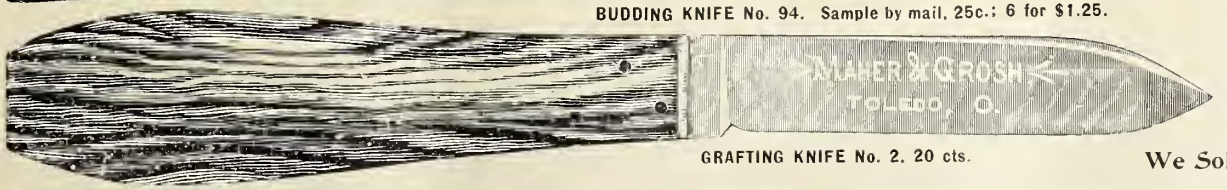

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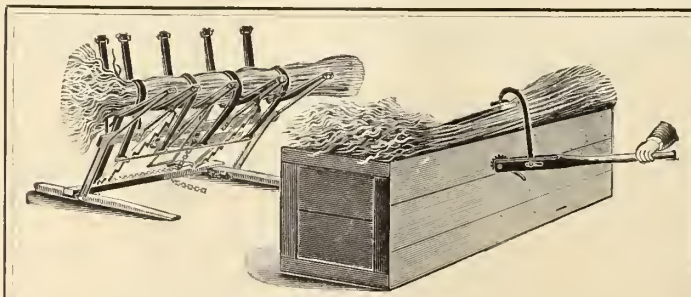

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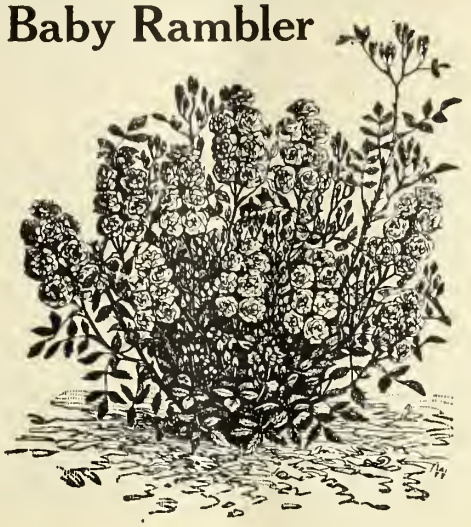

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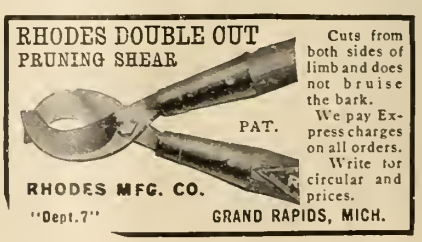
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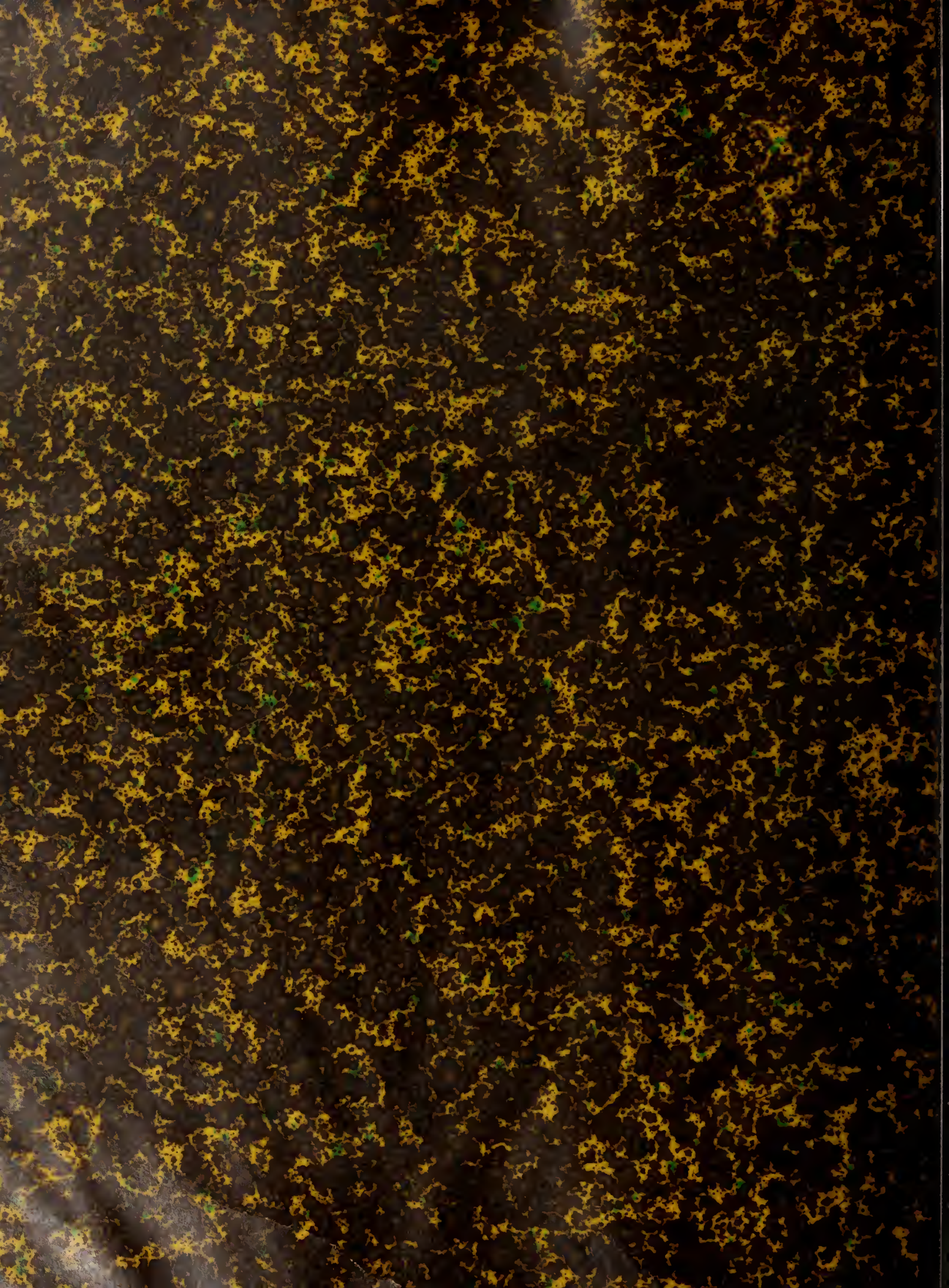

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